

PERK CHEMICAL COMPANY INC.
217 SOUTH FIRST STREET
ELIZABETH, NEW JERSEY

EPA ID NO. NJD002200046

GENERAL INFORMATION AND SITE HISTORY

The Perk Chemical company, Inc., (Perk) is located on a 2.03 acre tract of land on South First Street in Elizabeth, Union County. The site is approximately 0.75 miles northeast of Exit 13 of the N.J. Turnpike in the Elizabethport area of the city. The facility is engaged in the transportation, storage, processing, blending and distribution of virgin and waste chemicals. Perk (now Cycle Chem) is currently in the RCRA permit application process and conducts business under Temporary Operating Authority (TOA) as granted by NJDEP. (Attachment 1)

The Perk operation at the site began in February of 1962 under its incorporator and president Ray Rothschild. (Attachment 1) The administration of Perk Chemical Company under Ray Rothschild came to an end on September 21, 1987 when Perk changed its name to Cycle-Chem Inc., with its principal authority being transferred to Paul Fleischmann.

According to the latest Dun and Bradstreet Report Cycle-Chem Inc., is the parent company to Perk Chemical Company and both are within the corporate family of the Witte Chase Corporation. Also within this corporate family is Clean Venture Inc., (a New Jersey Hazardous Waste Contractor), who became associated with the others around October, 1985.

The relationships of these companies and their principals may be illustrated as follows:

	PERK	CYCLE	CLEAN VENTURE
President	Paul Fleischmann	Paul Fleischmann	Michael S. Persico
Vice President	-----	Mike Persico	John Kucsma
Secretary	Steven Chase	Steven Chase	Steven Chase Barbara Callahan

(See Attachment 1)

SITE OPERATIONS OF CONCERN

The Perk Operation under Mr. Rothschild operated with little regulatory guidance until the late 1970's when the NJDEP, through regular inspections, determined the standards at which Perk would need to operate in order to receive Department authorization. One of these standards was the installation of concrete pavement in drum and tank storage areas. Construction of this pavement began in late September 1980 and was completed around 1982.



A record exists of at least 17 chemical discharges that occurred at the site between March 1979 and September 1980. (Attachment 2) This indicates the possibility of multiple discharges over the 20 years prior to the installation of pavement and the potential for serious soil and groundwater contamination. This potential however was not completely remediated by the addition of concrete. And some concerns have been voiced regarding the value of this installation. One concern was that poor sloping which caused storm water and leaking chemicals to pond around stored drums may accelerate their deterioration. Another concern involved the deterioration of the concrete itself which could allow infiltration of spilled chemicals into the soil. (Attachment 2)

The Cycle-Chem operation consists of a distillation plant, a mixing solidification process, and a chemical and waste storage facility. Drums of waste received at the site are staged, inspected, and segregated according to classification. Spent chlorinated solvents such as trichloroethylene, tetrachloroethylene, 1,1,1-trichloroethane, and methylene chloride are stored and accumulated on site until they are reclaimed at the process plant. Still bottoms and residues are handled at a small polyethylene covered area where they undergo mixing and solidification. Non-reclaimable chlorinated solvents, flammable wastes, corrosives, and chemical lab packs are stored in segregated drum storage areas. Waste oil, contaminated water, spill clean up waste and cartridges from the dry cleaning industry are stored in either of three oil/water mixture tank trailers, one vacume truck, or six box trailers.

Bulk storage of virgin chemicals is provided through three 12,000 gallon storage tanks, one 15,000 gallon storage tank and numerous 55 gallon drums. Stormwater on the site is managed manually since there are no storm sewers within the perimeter of the site. Workers sweep ponded stormwater from around the drums to open areas on the pavement where it is left to evaporate. The perimeter of the site is curbed with a 4 to 6 inch concrete berm designed to contain accumulation from a 25 year storm. There are drainage channels around the site which direct storm water to an 18 inch storm sewer inlet on South First street where it is eventually discharged into the Elizabeth River through a 36 inch outfall. (Attachments 3 and 4)

GROUND WATER ROUTE

As quoted from Perk's January 1986 RCRA permit application, (Attachment 3) an on-site well supplies cooling water for the operation of the process condensers. This 6-inch well (NJ Permit No. 26-3500), location indicated in Drawing PCC-02, was initially drilled in 1965 to a depth of 285 feet. It initially supplied 120 gallons per minute (gpm) of cooling water to the distillation plant. The well casing extends to a depth of 41 feet. The static water level at the time of drilling the well was observed to be 90 feet. The well is drilled into the Brunswick shale.

By 1968, the pumpable volume of water fell below the required 90 to 100 gpm therefore the depth of the well was extended to 325 feet at that time. The maximum pumping rates measured in 1968 were as follows:

325 feet	- 94 gpm
305 feet	- 94 gpm
285 feet	- 83 gpm
265 feet	- 83 gpm
245 feet	- 75 gpm
200 feet	- 35 gpm

A second well was drilled on the Perk Chemical Co. site in 1974 (NJ Permit No. 26-4600). This is also a 6-inch well drilled to a depth of 440 feet and cased to a depth of 43 feet. At the time of drilling, the static water level was observed to be 40 feet and the pumping rate was determined to be 220 gpm. The well has not been in service for several years.

Groundwater apparently occurs under watertable conditions in the fill and tidal marsh sediments immediately underlying the site. Ground water also occurs under semi-contained conditions in the alternating sands beneath the silty clay aquitards and the secondary fractures within the Brunswick shale.

Groundwater in the uncontained zone of the upper water-table occurs between 2 and 5 feet below land surface as indicated in the 1966 boring logs (submitted as Appendix C of the December, 1978 Engineering Plans).

Groundwater flow at the site is believed to be south-southeast towards the Elizabeth River and the Arthur Kill. However, groundwater table gradients are predictably very low and therefore its movement is largely unpredictable without detailed analysis over a wide area. Tidal effects from Newark Bay can significantly affect local flow patterns.

Groundwater from the semi-confined aquifer of the Brunswick shale is probably not in good hydraulic communication with the fill and tidal marsh deposits because:

1. The site is generally a groundwater discharge zone.
2. Sequences of silty clay and clayey silts separate the unconfined from the semi-confined flow system.

The nearest other operating water well to that at the Perk Chemical Co. site is operated by Reichold Chemical Company at 726 Rockefeller St., Elizabeth. That site is approximately 3000 feet southwest of the Perk site and across the Elizabeth River. That well (NJ Permit No. 26-4096) drilled in 1967 is 10 inches in diameter, 400 feet deep and yields 415 gallons per minute. The well is cased to a depth of 39.5 feet. Water is utilized for industrial purposes.

No public water supply wells are located within more than 4 miles of the Perk chemical Co. site.

There are no monitoring wells at the site, though over the years there has been considerable potential for groundwater contamination, especially during the 1960's and 1970's.

SURFACE WATER ROUTE

The nearest bodies of water are the Elizabeth and Arthur Kill Rivers. These rivers are located less than .25 miles from the site, and are used for recreational purposes. Along the Third Avenue side of the site is located a 3.5 foot concrete flood wall, a concrete drainage ditch and two steel flood gates. This system was installed as part of the USCOE Elizabeth River Flood Control Project, and is designed to prevent water from getting onto the site, up to a 140 year flood.

At the South First Street and Third Avenue area of the site an 18 inch storm sewer collects storm-water that flows through drainage channels around the site and discharges it into the Elizabeth River through a 36 inch outfall. This may be a potential source of surface water contamination should contaminated liquid leave the site as it has on at least two other occasions (prior to March 16, 1979 and on July 25, 1979).

AIR ROUTE

The site's NJDEP plant ID number registered with the DEQ is #40549. Under this registry the following stacks are permitted:

<u>PERMIT NO.</u>	<u>DESCRIPTION</u>	<u>STACK NO.</u>	<u>EXPIRATION DATE</u>
*042726	15,000 gal Tank	001	-----
042727	Tri Tank	002	4/30/89
073180	15,000 gal Stainless	003	12/8/92
*042729	12,000 gal Tank	004	-----
**045559	12,000 gal Tank A	005	4/25/90
045560	Condensate Line	006	4/12/90
**045561	12,000 gal Tank B	007	4/02/90
048813	Steam Boiler	008	3/9/91

* It is uncertain whether this stack is currently operating.

** As of March 15, 1988 this tank has not yet been installed and did not have a projected installation date.
(see Attachment 5)

These stacks serve a variety of site operations and are equipped with the emissions control devices described below.

Solvent Distillation System

This 2000 gallon capacity distillation unit is essentially a closed system allowing very low emissions, (less than one lb./hr.). A water seal is utilized to control emissions during collection of condensate.

Tri-Tank

The Tri-Tank is a 12,000 gallon tank ordinarily used to store trichlorethylene and occasionally used to store tetrachloroethylene. It is equipped with a Calgon Ventsorb activated carbon filter which reduces emissions of trichloroethylene and tetrachloroethylene from 12.8 and 5 lbs./hr. to less than 0.6 and 0.05 lbs./hr. respectively.

2000 Gallon Agitated Mixing and Treating Vat

This unit serves as the receiving vessel for solvents to be reclaimed. Generally, emissions from this unit are negligible due to control measures like a water seal and hinged lid. If emissions occur, they are expected during the 2 hours/day that the vat is being filled. In the event that no water seal is present, the maximum emission rate of trichloroethylene and tetrachloroethylene is 3.4 and 1.0 lbs./hr. respectively.

350 Gallon Stainless Steel Holding Tank

This holding tank receives reclaimed solvents by gravity feed. Emissions are minimized through the control measures of a water seal and steel lid. Emission levels have been calculated as 0.15 and 0.51 lbs./hr. respectively for tetrachloroethylene and trichloroethylene.

55 Gallon Drum Filling and Weighing

Drums are placed on an electric scale and filled with solvent prior to shipment. Drums are filled from the top through their bung hole. Emissions are controlled by leaving the drum's vent hole sealed, and by a partial seal created by the design of the filling nozzle.

18 Inch Water/Solvent Separator

This unit separates water from the condensate reclaimed through distillation. A water seal is utilized to control emissions. Maximum emissions rates have been calculated as follows:

Tetrachloroethylene	0.2	lbs./hr.
Trichloroethylene	0.6	lbs./hr.
1,1,1-Trichloroethane	1.0	lbs./hr.
Methylene chloride	2.0	lbs./hr.

Other Storage Tanks

Storage tanks are supplied with a Calgon Ventsorb systems, similar to that described for Tri-tank above.

Enforcement History (Air)

June 12, 1985: Two orders were issued to Perk citing violations of NJAC 7:27-

8.3(a) The 15,000 gallon Volatile Organic Substance Tank was constructed, installed or altered without having obtained a permit.

17.3(a) Vapors of tetrachloroethylene and trichloroethylene were being emitted into the outdoor atmosphere from a source operation, storage tank or transfer operation without the equipment and/or operation being registered with the Department.

July 25, 1980: An order was issued to Perk citing a violation of NJAC 7:27-

16.2(h) A delivery vessel was used to store tetrachloroethylene on site for more than one month.

A potential exists for vapor releases from the site. This is due to the possible failure of control devices, the increased risks present while filling tanks and vats, and the volatile nature of the materials handled.

SOIL ROUTE

In September of 1980, Perk began construction of a concrete pavement to protect the soil underlying the drum storage area. This project was completed around 1982. However, many documented spill incidents at the site between 1979 and 1980 indicate a significant potential for discharges into the soil during the 20 years prior to paving. In addition, considerable question has been raised concerning the effectiveness of the pavement itself. Poorly graded areas have caused spilled and leaking wastes to pond around drums, potentially accelerating their degradation. And other areas of deteriorated concrete create a potential for spilled chemicals to infiltrate the underlying soil. (Attachment 4)

As stated above there have been at least 17 documented spill incidents at the site, most of which occurred in the drum storage area prior to the installation of pavement. In most of these cases both the specific substances involved and volumes spilled are unknown. However it is likely that these spills involved one or more of the substances generally stored in this area. These substances include perchloroethylene, trichloroethylene, methylene chloride, carbon tetrachloride, cyclohexanone, and butyl cellusolve. Spill incidents occurring at the site are as follow:

3/16/79	sign of previous spill leaving the site, observed discoloration of fence bottom and sidewalk;
5/7/79	spillage on bare soil;
7/25/79	weld in storage tank broke causing 12,000 gallons of perchloroethylene to leak onto ground and into street;
9/25/79	one drum spilled on ground, others leaking;
10/16/79	minor spill of wax drum;
11/20/79	spills from drums and surface water accumulation;
11/27/79	spill of heavy material by standing water;
12/5/79	spill from decaying drums;
12/6/79	drums leaking on ground;
12/26/79	spills of drum residue on ground and run off collected at low points;
1/30/80	leak from drum storage area;
2/22/80	leak of water soluble oil;
3/13/80	spillworker treated for exposure to chlorinated hydrocarbons;
4/21/80	groundwater leaching into excavation pit, multi colored leachate;
5/5/80	drum leak;
5/21/80	drum spill from being tipped over;
6/5/80	drum leaks w/spills onto ground;
8/21/80	two drums spilled water with oily sheen;
9/5/80	leak drums;
9/18/80	one drum leaking oil;
9/11/80	four leaking drums;
9/17/80	oil spill;
9/29/80	leaking solvent drum;
10/15/80	drums leaking;
11/25/80	contaminated water washed down from concrete pad;
12/2/80	spill on ground near concrete pad;
12/8/80	leaking drum solvent drum;
12/21/87	fifteen gallon leak of 1,1,1-trichloroethylene from collapsed trailer;

Of these incidents, several deserve special attention. Particularly those observations made on March 16, 1979 and July 25, 1979, when spilled chemicals apparently left the site. Another incident of special interest occurred on April 21, 1980, when groundwater was observed discharging into an excavation pit with a multi-colored leachate. (Attachment 2)

One final area of concern is the mixing solidification process. This operation includes a drum to drum transfer of compatible materials or drying agents with inadequate controls of material release. The potential for releases to have already occurred is significant since the process has been in operation for over 20 years. (Attachment 4)

DIRECT CONTACT

Since leaks and spills of chemicals and waste are cleaned up manually there is always the potential for exposure through direct contact. Such an incident was recorded on March 13, 1980. (Attachment 2) The current methods of handling contaminated storm water and mixing/solidifying wastes, also increase this risk. (Attachment 4)

Unauthorized site entry is prevented by a perimeter fence bearing signs which read, "Danger - Unauthorized Personnel Keep Out". But on some occasions, materials have even been discharged off the site property (ie. March 16, 1979 and July 25, 1979) increasing the potential for direct contact with local residents. (Attachment 2)

FIRE AND EXPLOSION

Since the site does handle flammable materials there is a potential for fire. On August 26, 1980 the Elizabeth Fire Prevention bureau inspected the site and made recommendations regarding fire prevention and safety. (Attachment 6)

ENFORCEMENT ACTION

- 5/3/79 Administrative Order - NJDEP
 Operating without renewed TOA.
- 8/13/79 Administrative Consent Order - NJDEP
 TOA renewed since Perk supplied NJDEP with certain technical data.
- 7/25/80 Administrative Order - NJDEP
 Delivery vessel used for VOS storage for more than one month.
- 6/8/81 Administrative Order - NJDEP
 Failure to file DPCC plan, failure to conduct fire drills, lack of tank identification.
- 9/20/82 Notice of Violation - NJDEP
 Hazardous waste label affixed with manifest number missing.
- 7/26/83 Notice of Violation - NJDEP
 Drums stored without hazardous waste labels.

- 10/18/83 Notice of Violation - NJDEP
Failure to submit annual report on timely basis.
- 3/19/85 Notice of Civil Administrative Penalty - NJDEP
DHWM, BCTS - \$500
- 6/12/85 Order - NJDEP, DEQ -
No permit for 15,000 gallon VOS tank.
- 6/12/85 Order - NJDEP, DEQ -
No permit for 15,000 gal. and 17,000 gal. VOS storage tank.
- 4/3/86 Notice of Violation NJDEP, DHWM -
Storage of hazardous waste in poor condition; containers, drums
not segregated by waste type; drums with missing identification
labels; no documentation of training; training records not kept
three years; no semi-annual drills.
- 5/22/86 Notice of Violation with Penalty Settlement Offer -
NJDEP, DHWM, BCTS - \$3000.
- 1/2/87 Field Nov, NJDEP, DHWM, Metro Enforcement
- 1/20/87 Notice of Penalty Civil Administrative
NJDEP, DHWM, BCTS - \$7,175.
- 2/25/87 Field Nov, NJDEP, DHWN, Metro Enforcement.
- 3/3/87 Notice of Civil Administrative Penalty, NJDEP
DHWN, BCTS - \$3,150.
- 5/22/87 Notice of Civil Administrative Penalty, NJDEP, DHWM
BCTS - \$4,5000.
- 7/8/87 Notice of Civil Administrative Penalty, NJDEP, DHWM
BCTS, - 1,500.
- 9/28/87 Notice of Civil Administrative Penalty, NJDEP, DHWM
BCTS, - \$3,000.

Additional details of these Enforcement Actions may be obtained in the Perk
Chemical files of:

NJDEP, DHWM
Bureau of Metro Enforcement
2 Babcock Place
West Orange, NJ 07052
201-669-3960

NJDEP, DEQ
Metro Field Office
2 Babcock Place
West Orange, NJ 07052
201-699-3937

NJDEP, DHWM
BCTS
401 E. State Street 5th Floor
Trenton, NJ 08625
609-633-0708

And from the 1986 RCRA Part B Application, (Attachment 7 in this package).

PRIORITY DISIGNATION

The site is assigned a high priority due to the nature of the materials handled at the site and the population density of the surrounding area. Another important factor is the observation of substances discharged onto the soil at the site and the potential of repeated discharges over a 20 year period.

It is also significant that although data exists regarding the materials handled at the site, no data has ever been collected to quantify the ongoing potential hazards inherent to this operation.

RECOMMENDATIONS

Although this site has been sampled by the Department on two other occasions (September 14, 1981 and September 30, 1981), no samples have ever been taken of soil or groundwater at the site. Those mentioned above were samples of products and wastes. (Attachment 8)

After considering the preceeding information, the following recommendations are offered.

1. The site should be inspected to document Cycle-Chem's current practices regarding mixing/solidification, drum storage and storm water management.
2. Due to the high potential for previous soil contamination soil samples should be obtained and analyzed which represent soil from within and around the drum storage areas, (and perhaps even under existing concrete), and the mixing/solidification process.
3. A plan should be developed for the placement and sampling of groundwater monitoring wells based on the results of the proposed soil sampling. Over the years there has existed a high potential for groundwater contamination at the site. And since the site is essentially in a groundwater discharge zone flowing toward the Elizabeth and Arthur Kill Rivers any contamination generated at the site would be potentially deleterious to these bodies of water.

Submitted by:

Joseph A. DeSantis, HSMS II
NJDEP/Bureau of Planning
and Assessment

Hours worked: 85 hours



Preliminary Assessment

PERK CHEMICAL COMPANY
217 SOUTH FIRST STREET
ELIZABETH, NJ 07206
UNION COUNTY
EPA ID# NJD002200046



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 0002200046

II. SITE NAME AND LOCATION

01 SITE NAME (Legal name, or descriptive name of site) Perk Chemical Co., Inc, Aka Cycle Chem.		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 217 South First Street			
03 CITY Elizabeth	04 STATE NJ	05 ZIP CODE 07206	06 COUNTY Union	07 COUNTY CODE 20	08 CONG DIST
09 COORDINATES LATITUDE 40° 38' 41"		LONGITUDE 74° 11' 46"		Block 2 Lot 84 Acreage 2.032	

10 DIRECTIONS TO SITE (Starting from nearest public road)

NJ Turnpike north to exit 13 follow signs for route 1 & 9 north. At the traffic light make a sharp right. Follow sign for Elizabeth port, turn right onto 3rd Ave., continue to first Street, facility is on left corner of 3rd Ave. & 1st Street.

III. RESPONSIBLE PARTIES

01 OWNER (if known) Vernal Corporation, Feldmand P & Sons		02 STREET (Business mailing, residential) 201-207 South First Street, P.O. Box 122			
03 CITY Elizabeth	04 STATE NJ	05 ZIP CODE 07206	06 TELEPHONE NUMBER (201) 352-0042		
07 OPERATOR (if known and different from owner) Cycle Chem. Inc.(w/Perk Chemical Co.,Inc.)		08 STREET (Business, mailing, residential) 217 South First Street			
09 CITY Elizabeth	10 STATE NJ	11 ZIP CODE 07206	12 TELEPHONE NUMBER (201) 355-5800		

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check if this applies)

☒ A. RCRA 3001 DATE RECEIVED: 6/17/87 ☐ B. UNCONTROLLED WASTE SITE (RCRA 102) DATE RECEIVED: / / ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 5/6/86 <input type="checkbox"/> NO		BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: Bi-weekly inspections	
CONTRACTOR NAME(S):			

02 SITE STATUS (Check one)

☒ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION

1962 to present ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Virgin and spent hydrocarbons (no PCB's) chlorinated solvents, paint waste and solvents, halogenated still bottoms, non flammable organic liquids, waste oil, acids and alkaline solutions, and other flammable liquids, (RCRA Part B, pg 2).

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

The facility stored hazardous wastes and substances in drums and tanks since 1962. The storage area was unpaved until 1982. Environmental hazards include; potential soil and groundwater contamination from waste infiltrating soil and deteriorated pavement.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one) If high or medium or elevated, complete Part 2 - Waste Characterization and Part 3 - Description of Hazardous Conditions and Remedial

☒ A. HIGH ☐ B. MEDIUM ☐ C. LOW ☐ D. NONE

VI. INFORMATION AVAILABLE FROM

01 CONTACT Boleslaw Czakor	02 OF (Agency/Organization) Metro Enforcement		03 TELEPHONE NUMBER (201) 669-3960	
04 PERSON RESPONSIBLE FOR ASSESSMENT Joseph A. DeSantis	05 AGENCY NJDEP	06 ORGANIZATION DHWM/BPA	07 TELEPHONE NUMBER (609) 984-3018	08 DATE 12/28/88



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES A SOLID B POWDER/FINES C SLUDGE X C OTHER E SLURRY F LIQUID G GAS Residue	02 WASTE QUANTITY AT SITE Tons _____ Cubic Yards _____ No. of Drums 4200	03 WASTE CHARACTERISTICS X A TOXIC X B CORROSIVE C RADIOACTIVE D PERSISTENT E SOLUBLE F INFECTIOUS G FLAMMABLE H IGNITABLE I HIGHLY VOLATILE J EXPLOSIVE K REACTIVE L INCOMPATIBLE M NOT APPLICABLE
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III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SOL	SLUDGE			
OLW	OLY WASTE	unknown		
SOL	SOLVENTS	unknown		
PSD	PESTICIDES			
OC	OTHER ORGANIC CHEMICALS	unknown		
IC	INORGANIC CHEMICALS			
AC	ACIDS	unknown		
BS	BASES	unknown		
ME	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES See Appendix for CAS Numbers

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/ DISPOSAL METHOD	05 CONCENTRATION	06 MEASUREMENT CONCENTRATION
SOL	TETRACHLOROETHYLENE	127-18-4	reclamation/distillation	various	
SOL	TRICHLOROETHYLENE	79-01-6	"	"	
SOL	1,1,1-TRICHLOROETHANE	25323-89-1	"	"	
SOL	METHYLENE CHLORIDE	75-05-2	"	"	
OC	TOLUENE	108-88-3	in drums, offsite disposed	various	
OC	XYLENE	1330-20-7	in drums, offsite disposed	various	
OC	MINERAL SPIRITS		in drums, offsite disposed	various	
OC	NAPHTHALENE	91-20-3	in drums, offsite disposed	various	
OC	KEROSENE		in drums, offsite disposed	various	
OC	METHANOL	67-56-1	in drums, offsite disposed	various	
OC	BUTYL ALCOHOL		in drums, offsite disposed	various	
OC	METHYL ETHYL KETONE	78-93-3	in drums, offsite disposed	various	
OC	ACETONE	67-64-1	in drums, offsite disposed	various	
OC	CYCLOHEXANONE	108-94-1	in drums, offsite disposed	various	
OLW	MINERAL OILS		in drums, offsite disposed	various	
OLW	MACHINE OIL		in drums, offsite disposed	various	

V. FEEDSTOCKS See Appendix for CAS Numbers

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION See Appendix for CAS Numbers

RCRA Permit Application Part B



II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS			
01 PHYSICAL STATES		02 WASTE QUANTITY AND STATE	03 WASTE CHARACTERISTICS
<input type="checkbox"/> SOLID <input type="checkbox"/> LIQUID <input checked="" type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER <u>Residue</u>		TONS _____ CUBIC YARDS _____ NO OF DRUMS <u>4200</u>	<input checked="" type="checkbox"/> A TOXIC <input checked="" type="checkbox"/> B CORROSIVE <input type="checkbox"/> C RADIOACTIVE <input type="checkbox"/> D PERSISTENT <input checked="" type="checkbox"/> E SOLUBLE <input type="checkbox"/> F INFECTIOUS <input checked="" type="checkbox"/> G FLAMMABLE <input checked="" type="checkbox"/> H IGNITABLE <input checked="" type="checkbox"/> I HIGHLY VOLATILE <input type="checkbox"/> J EXPLOSIVE <input type="checkbox"/> K REACTIVE <input type="checkbox"/> L INCOMPATIBLE <input type="checkbox"/> M NOT APPROPRIATE

III. WASTE TYPE				
CATEGORY	SUBSTANCE NAME	Q1 GROSS AMOUNT	Q2 UNIT OF MEASURE	Q3 COMMENTS
SLU	SLOUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PST	PESTICIDES			
OC	OTHER ORGANIC CHEMICALS			
IC	INORGANIC CHEMICALS			
AC	ACIDS			
BS	BASES			
MS	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES				
01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE DISPOSAL METHOD	05 CONCENTRATION
OLW	CUTTING OIL		in drums, offsite	
OLW	COOLING OIL		in drums, offsite	
OLW	STILL BOTTOM OILS		in drums, offsite	
OLW	MISCELLANEOUS OILS		in drums, offsite	
OLW	OILY EMULSIONS		in drums, offsite	
BAS	CAUSTIC		in drums, offsite	
BAS	DETERGENTS w/ ALKALINE	BASE	in drums, offsite	
ACD	SULFURIC ACID	7664-93-9	in drums, offsite	
ACD	NITRIC ACID	1097-37-2	in drums, offsite	
ACD	ACETIC ACID	64-19-7	in drums, offsite	
ACD	HYDROCHLORIC ACID	7647-01-0	in drums, offsite	

V. FEEDSTOCKS See 4200-2 for CAS Numbers					
CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

RCRA Permit Application Part B



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Facility has operated since 1960 but was not paved until late in 1980. There were 17 recorded spills from 3/79 to 9/80, and the potential for numerous spills prior to 1979 which could have entered the soil and contaminated groundwater. 4/21/80 multicolor leachate observed.

01 ☒ B. SURFACE WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

A potential exists for liquid wastes to leave the site through 18" storm sewer and discharge into Elizabeth River through 36" out fall.

01 ☒ C. CONTAMINATION OF AIR

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

There is potential for a discharge into the atmosphere should a failure of control measures occur.

01 ☒ D. FIRE EXPLOSIVE CONDITIONS

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

There are flammable materials stored on site, and a walk through inspection by DEP Personnel on 5/6/86 revealed 2 leaking drums in the flammable storage area.

01 ☒ E. DIRECT CONTACT

02 ☒ OBSERVED (DATE: 3/13/80)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Spill on 3/13/80 worker contact spilled and leaking material and treated for exposure.

01 ☒ F. CONTAMINATION OF SOIL

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 AREA POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Facility has operated since 1960 but was not paved until late in 1980. There were 17 recorded spills from 3/79 to 9/80 and the potential for numerous spills prior to 1979 which would have entered the soils.

01 ☒ G. DRINKING WATER CONTAMINATION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Minimal potential due to the fact that the nearest public water supply is greater than 4 miles away.

01 ☒ H. WORKER EXPOSURE/INJURY

02 ☒ OBSERVED (DATE: 3/13/80)

☒ POTENTIAL

☐ ALLEGED

03 WORKERS POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Potential for workers to contact spilled and leaking materials was realized on 3/13/80 when one worker need.

01 ☒ I. POPULATION EXPOSURE/INJURY

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

Minimal potential since the surrounding area is zoned M.I. (manufacturing/industrial).



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

Minimal potential due to the urban/industrial use of the surrounding land.

01 ☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include name(s) of species)

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

Minimal potential due to the urban/industrial use of the surrounding land.

01 ☒ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

Minimal due to the urban/industrial use of the surrounding land.

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Spills, Runoff, Standing liquids, Leaking drums)
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☒ OBSERVED (DATE: 5/6/86) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

A walk through inspection on 5/6/86 revealed 2 leaking drums in the flammable drum storage area. In addition at least 17 other spills were observed in 1979-80.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☒ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

On 3/16/79 signs of a previous spill that existed the property were observed. And on 7/25/79 a solvent spill existed the property and entered the street.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED

A potential exists for spills large enough to overflow the 4" concrete berms and contaminate the storm ~~XXXXXX~~ drains.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

Minimal potential since the site operations are authorized by permit.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

There is potential for groundwater and soil contamination from leaks and spills that penetrate poorly maintained and deteriorated pavement.

Attachment: 2

III. TOTAL POPULATION POTENTIALLY AFFECTED: 106,000

IV. COMMENTS

V. SOURCES OF INFORMATION (Give specific references, e.g., State files, sampling analysis reports)

- Various Inspection Reports from DEP, DHWM/BFO, Metro Field Office and
DHWM/HSMA/BEMSA
_ RCRA Part B permit application



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A NPDES				
<input type="checkbox"/> B UIC				
<input type="checkbox"/> C AIR				
<input checked="" type="checkbox"/> D RCRA	2004E2HP01			yet to be issued
<input type="checkbox"/> E RCRA INTERIM STATUS				
<input type="checkbox"/> F SPCC PLAN				
<input checked="" type="checkbox"/> G STATE	2004C			NJDEP, Haz., Wst., Fac.
<input type="checkbox"/> H LOCAL				
<input checked="" type="checkbox"/> I OTHER	S-2841			NJDEP, Collector/Hauler
<input type="checkbox"/> J NONE				

III. SITE DESCRIPTION

01 STORAGE/DEPOSAL	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT	05 OTHER
<input type="checkbox"/> A SURFACE W/COINVENT			<input type="checkbox"/> A INCINERATION	<input type="checkbox"/> A BUILDINGS ON SITE
<input type="checkbox"/> B PILES			<input type="checkbox"/> B UNDERGROUND INJECTION	-office/lab.
<input checked="" type="checkbox"/> C DRUMS ABOVE GROUND	249,900	gal	<input type="checkbox"/> C CHEMICAL PHYSICAL	-Process Building
<input checked="" type="checkbox"/> D TANK ABOVE GROUND	18,500	gal	<input type="checkbox"/> D BIOLOGICAL	OF AREA OF SITE
<input type="checkbox"/> E TANK BELOW GROUND			<input type="checkbox"/> E WASTE OIL PROCESSING	
<input type="checkbox"/> F LANDFILL			<input checked="" type="checkbox"/> F SOLVENT RECOVERY	2
<input type="checkbox"/> G LANDFARM			<input checked="" type="checkbox"/> G OTHER RECYCLING RECOVERY	
<input type="checkbox"/> H OPEN DUMP			<input type="checkbox"/> H OTHER	
<input type="checkbox"/> I OTHER				

01 COMMENTS

The facility is permitted to store 5000 drums (55 gallons each). Temporary storage of waste on site is provided by 3 tank trailers totalling 18,500 gallons.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES
☐ A ADEQUATE SECURE ☐ B MODERATE ☒ C INADEQUATE POOR ☐ D INSECURE UNSOUND DANGEROUS

02 DESCRIPTION OF DRUMS DIKING LINERS BARRIERS ETC.

Approximately 5000 drums are stored on site in 11 segregated areas. Most of the site is paved but paving is generally poorly sloped and in some areas cracked and deteriorated. There is also a 4" concrete berm on the site perimeter. But there is no individual secondary containment.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☒ YES ☐ NO
02 COMMENTS

There is no individual secondary containment around the drum area, leaving drums easily accessible.

VI. SOURCES OF INFORMATION

RCRA Part B Application, From NJDEP, DWM, BHW
5/6/86 inspection



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE

WELL

02 STATUS

ENDANGERED

AFFECTED

MONITORED

03 DISTANCE TO SITE

COMMUNITY

A ☒

B ☐

A ☐

B ☐

C ☐

A _____ (mi)

NON-COMMUNITY

C ☒

D ☐

D ☐

E ☐

F ☐

B _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A ONLY SOURCE FOR DRINKING

☐ B DRINKING

(Other sources available)



COMMERCIAL INDUSTRIAL IRRIGATION

☐ D NOT USED UNSEABLE

COMMERCIAL INDUSTRIAL IRRIGATION
(No other water sources available)

02 POPULATION SERVED BY GROUND WATER 0

03 DISTANCE TO NEAREST DRINKING WATER WELL 4 (mi)

04 DEPTH TO GROUNDWATER

2-5 ft

05 DIRECTION OF GROUNDWATER FLOW

South-Southeast

06 DEPTH TO AQUIFER OF CONCERN

07 POTENTIAL YIELD OF AQUIFER

08 SOLE SOURCE AQUIFER

☐ YES ☐ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

There are two on site supply wells presently abandoned but not sealed. These wells were at one time used to supply cooling water.

10 RECHARGE AREA

☐ YES

COMMENTS

☒ NO

11 DISCHARGE AREA

☒ YES

COMMENTS

☐ NO

To Elizabeth River

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A RESERVOIR RECREATION
DRINKING WATER SOURCE

☐ B IRRIGATION ECONOMICALLY
IMPORTANT RESOURCES



COMMERCIAL INDUSTRIAL

☐ D NOT CURRENTLY USED

02 AFFECTED POTENTIALLY AFFECTED BODIES OF WATER

NAME

AFFECTED

DISTANCE TO SITE

Elizabeth River

☐

25

(mi)

Arthur Kill River

☐

25

(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE

TWO (2) MILES OF SITE

THREE (3) MILES OF SITE

02 DISTANCE TO NEAREST POPULATION

A

NO OF PERSONS

B

10,000

NO OF PERSONS

C

NO OF PERSONS

25 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

04 DISTANCE TO NEAREST OFF-SITE BUILDING

100ft (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site e.g. rural village, densely populated urban area)

URBAN



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (cm/sec)

A $10^{-11} - 10^{-10}$ cm/sec B $10^{-10} - 10^{-9}$ cm/sec ☒ C $10^{-9} - 10^{-8}$ cm/sec D GREATER THAN 10^{-8} cm/sec

02 PERMEABILITY OF BEDROCK (cm/sec)

A IMPERMEABLE (less than 10^{-10} cm/sec) B RELATIVELY IMPERMEABLE ($10^{-10} - 10^{-9}$ cm/sec) ☒ C RELATIVELY PERMEABLE ($10^{-9} - 10^{-8}$ cm/sec) D VERY PERMEABLE (greater than 10^{-8} cm/sec)

03 DEPTH TO BEDROCK

(ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

(ft)

05 SOIL pH

06 NET PRECIPITATION

(in)

07 ONE YEAR 24 HOUR RAINFALL

(in)

08 SLOPE

SITE SLOPE

(%)

DIRECTION OF SITE SLOPE

TERRAIN AVERAGE SLOPE

(%)

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (m)

ESTUARINE

OTHER

A 25 (m)

B (m)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

(m)

ENDANGERED SPECIES

13 LAND USE IN VICINITY

DISTANCE TO

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL STATE PARKS
FORESTS OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A within (mi)

B 25 (mi)

C (mi)

D (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

A small portion of the site is within the 100 year flood plan, however, the entire working site is above this flood plain elevation of 8.3 feet.

VII. SOURCES OF INFORMATION (Give specific references e.g., state files, sample analysis, reports)

RCRA Part B Permit Application



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE	5	Stablex/Reutler Inc.	9/14/87
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER WASTE	5	Princeton Aqua Science	9/14/87

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF _____ <small>(Name of organization or individual)</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS BPA, 65 Prospect Street, Trenton

V. OTHER FIELD DATA COLLECTED Provide name and description

*2Waste samples collected 9/30/86 and analyzed by S-R Anlitrical

VI. SOURCES OF INFORMATION Cite specific references e.g. state files, sample analysis, reports

Laboratory Anlitrical Reports from NJDEP/DHWM BCTS files and Metro Enforcement files.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. CURRENT OWNER(S)

01 NAME Vernal Corporation			02 D-B NUMBER 01-123-5348		08 NAME Vernal Corp. Feldman P&Sons			09 D-B NUMBER 01-123-5348	
03 STREET ADDRESS (P.O. Box, RFD, etc.) 201-207 South First Street			04 SIC CODE 5093		10 STREET ADDRESS (P.O. Box, RFD, etc.) PO BOX 122			11 SIC CODE 5093	
05 CITY Elizabeth		06 STATE NJ	07 ZIP CODE 07206		12 CITY Elizabeth		13 STATE NJ	14 ZIP CODE 07206	
01 NAME			02 D-B NUMBER		08 NAME			09 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD, etc.)			11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		12 CITY		13 STATE	14 ZIP CODE	
01 NAME			02 D-B NUMBER		08 NAME			09 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD, etc.)			11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		12 CITY		13 STATE	14 ZIP CODE	
01 NAME			02 D-B NUMBER		08 NAME			09 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD, etc.)			11 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		12 CITY		13 STATE	14 ZIP CODE	

III. PREVIOUS OWNER(S)

(List most recent first)

01 NAME			02 D-B NUMBER		01 NAME			02 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		05 CITY		06 STATE	07 ZIP CODE	
01 NAME			02 D-B NUMBER		01 NAME			02 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		05 CITY		06 STATE	07 ZIP CODE	
01 NAME			02 D-B NUMBER		01 NAME			02 D-B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD, etc.)			04 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE		05 CITY		06 STATE	07 ZIP CODE	

IV. REALTY OWNER(S)

(If applicable, list most recent first)

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, sample analysis, reports)

Elizabeth City Tax Assessors Office



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME Perk Chemical Company		02 D+B NUMBER 06-583-9508		03 STREET ADDRESS (P.O. Box, RFD, etc.) 217 South First Street		04 SIC CODE 4952*		05 CITY Elizabeth		06 STATE NJ		07 ZIP CODE 07206		08 YEARS OF OPERATION 3		09 NAME OF OWNER Paul Fleischmann		10 NAME Cycle Chemical Inc.		11 D+B NUMBER 12-225-4477		12 STREET ADDRESS (P.O. Box, RFD, etc.) 217 South First Street		13 SIC CODE 4952*		14 CITY Elizabeth		15 STATE NJ		16 ZIP CODE 07206							
08 YEARS OF OPERATION 3																		09 NAME OF OWNER Paul Fleischmann										President									

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME Perk Chemical Co.		02 D+B NUMBER 06-583-9508		03 STREET ADDRESS (P.O. Box, RFD, etc.) 217 South First Street		04 SIC CODE 4952*		05 CITY Elizabeth		06 STATE NJ		07 ZIP CODE 07206		08 YEARS OF OPERATION 23		09 NAME OF OWNER DURING THIS PERIOD Ray Rothschild		10 NAME President		11 D+B NUMBER		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE		14 CITY		15 STATE		16 ZIP CODE							
08 YEARS OF OPERATION 23																		09 NAME OF OWNER DURING THIS PERIOD Ray Rothschild										President									
01 NAME		02 D+B NUMBER		03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		05 CITY		06 STATE		07 ZIP CODE		08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD		10 NAME		11 D+B NUMBER		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE		14 CITY		15 STATE		16 ZIP CODE							
08 YEARS OF OPERATION																		09 NAME OF OWNER DURING THIS PERIOD																			
01 NAME		02 D+B NUMBER		03 STREET ADDRESS (P.O. Box, RFD, etc.)		04 SIC CODE		05 CITY		06 STATE		07 ZIP CODE		08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD		10 NAME		11 D+B NUMBER		12 STREET ADDRESS (P.O. Box, RFD, etc.)		13 SIC CODE		14 CITY		15 STATE		16 ZIP CODE							
08 YEARS OF OPERATION																		09 NAME OF OWNER DURING THIS PERIOD																			

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

* Secondary SIC (s): 5161, 2869, 4953
** Secondary SIC (s): 5161,

Dun and Bradstreet file, DEP Info. Resource Center
Dept. of State, Div. of Corp. Recording Incorporation papers



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. ON-SITE GENERATOR

01 NAME Perk Chemical Company	02 D-B NUMBER 00-220-0046		
03 STREET ADDRESS P.O. Box RFD # etc. 217 South First Street	04 SIC CODE 4952		
05 CITY Elizabeth	06 STATE NJ	07 ZIP CODE 07206	

III. OFF-SITE GENERATOR(S)

01 NAME N/A	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS P.O. Box RFD # etc.	04 SIC CODE	03 STREET ADDRESS P.O. Box RFD # etc.	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME N/A	02 D-B NUMBER	01 NAME	02 D-B NUMBER
03 STREET ADDRESS P.O. Box RFD # etc.	04 SIC CODE	03 STREET ADDRESS P.O. Box RFD # etc.	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME Perk Chemical Company	02 D-B NUMBER 00-220-0046	01 NAME	02 D-B NUMBER
03 STREET ADDRESS P.O. Box RFD # etc. 217 South First Street	04 SIC CODE 4952	03 STREET ADDRESS P.O. Box RFD # etc.	04 SIC CODE
05 CITY Elizabeth	06 STATE NJ	07 ZIP CODE 07206	
01 NAME Clean Venture Inc.	02 D-B NUMBER 08-563-4335	01 NAME Witte Chase Corp.	02 D-B NUMBER 04-525-5437
03 STREET ADDRESS P.O. Box RFD # etc. 1160 State St., PO BOX 936	04 SIC CODE 4469*	03 STREET ADDRESS P.O. Box RFD # etc.	04 SIC CODE
05 CITY Perth Amboy	06 STATE NJ	07 ZIP CODE 08862	

V. SOURCES OF INFORMATION (See specific references, e.g. state files, sample analysis reports)

*4953, 7699
Hazardous Waste Enforcement files Metro Field Office



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. PAST RESPONSE ACTIVITIES

01 ☐ A WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ B TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ C PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ D SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE 7/25/79

03 AGENCY

on site.

Solvent spill recovered in vacume truck and reclaimed by distillation

01 ☐ E CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ F WASTE REPACKAGED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☒ G WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE

03 AGENCY

During the night a trailer containing 1,1,1-Trichloroethane calapsed

spilling this product on the ground The spill was cleaned with speedy dry and treated as Haz. Waste.

01 ☐ H ON SITE BURIAL
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ I IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ J IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ K IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ L ENCAPSULATION
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☒ M EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE 7/25/79

03 AGENCY

Solvent spill recovered in vacum truck and reclaimed by distillation on site.

01 ☐ N CUTOFF WALLS
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ O EMERGENCY DIKING SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ P CUTOFF TRENCHES SUMP
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ Q SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION
01 STATE 02 SITE NUMBER

II PAST RESPONSE ACTIVITIES *Continued*

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ S. CAPPING COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☒ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE 7/25/79

03 AGENCY

12000 gallon tank leak, the leaking tank and a sister tank after were removed from service.

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

NONE REPORTED

01 ☒ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

Numerous smaller spills and leaks in the drum storage areas were cleaned up with absorbant pads or speedy cry.

III. SOURCES OF INFORMATION *(Cite specific references e.g. state law, sample analysis, reports)*

Inspection reports in the files of NJDEP, DHWM, Bureau of Metro Enforcement



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NJ

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

1. 4/3/86 Notice of Violation - NJDEP, DWM -
Storage of hazardous waste in poor condition containers, drums not segregated by waste type, drums with missing identification labels, no documentation of training, training records not kept 3 years, no semi-annual drills.
2. 6/12/85 Order - NJDEP, DEQ -
No permit for 15,000 gallon VOS storage tank.
3. 6/12/85 Order - NJDEP, DEQ -
No permit for 15,000g and 17,000g VOS storage tank
4. 10/18/83 Notice of Violation - NJDEP
Failure to submit annual report on timely basis.
5. 7/26/83 Notice of Violation - NJDEP
Drums stored without hazardous waste labels.
6. 9/10/82 Notice of Violation. NJDEP
Hazardous waste label affixed with manifest number missing.
7. 6/8/81 Administrative Order - NJDEP
Failure to file DPCC plan, failure to conduct fire drills, lack of tank identification, failure to notify that company's bard had been continued.
8. 7/25/80 Administrative Order - NJDEP
Delivery vessel used for VOS storage for more than 1 month.
9. 8/13/79 Administrative Consent Order - NJDEP
TOA renewed since Perk supplied NJDEP with certain technical data.
10. 5/3/79 Administrative Order - NJDEP
Operating without renewed TOA.
11. 3/19/85 Notice of Civil Administrative Penalty- NJDEP, DHWM, BCTS, -\$500
12. 5/22/86 Notice of Violation with Penalty Settlement Offer-NJDEP, DHWM, BCTS, -\$3,000
13. 1/2/87 Field Nov, NJDEP, DHWM, Metro Enforcement

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analyses, reports)

RCRA Part B Application, from NJDEP, DWM/BHWE



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

14. 1/20/87 Notice of Civil Administrative Penalty -NJDEP,DHWM,BCTS \$7,175
15. 2/25/87 Field Nov, NJDEP, DHWM, Metro Enforcement.
16. 3/3/87 Notice of Civil Administrative Penalty, NJDEP,DHWM,BCTS -\$3,150
17. 5/22/87 Notice of Civil Administrative Penalty, NJDEP,DHWM,BCTS -\$4,500
18. 7/8/87 Notice of Civil Administrative Penalty, NJDEP,DHWM,BCTS,-\$1,500
19. 9/28/87 Notice of Civil Administrative Penalty, NJDEP,DHWM,BCTS,-\$3,000

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports)

NJDEP,DHWM: Metro Enforcement Files and BCTS Files
DEQ: Air Pollution, Metro Files

**BUREAU OF PLANNING AND ASSESSMENT
FILE/DATA CHECK SHEET**
Developed by NJDEP DHWM/BPA 1/14/1988

Agency	Phone No.	Contact	Date	File Y/N	Reviewed
N. J. DEP Div. Water Resources					
A. Central File	(609) 292-0400	Paul Harvey	11/23/88		✓
B. Regional <i>Metro</i> Enforcement Office.	²⁰¹ 669-3960	Paul Harvey			
C. Geological Survey	(609) 292-0668				
D. Water Allocation (well logs) (radius program)	(609) 984-6831 (609) 292-2957				
E. Groundwater Quality Mgt.	(609) 292-0424				
F. Indust. Waste Mgt. (NJPDES permits)	(609) 292-4860				
G. Other					
Div. Haz. Waste Mgt.					
A. Regional <i>Metro</i> Enforcement Office	²⁰¹ 669-3960	Boleslaw Grankar Harold Clark	11/23/88	✓	
B. Case Management	(609) 633-0701	Paul Harvey	11/23/88		✓
C. ECRA	(609) 633-7141				
D. Haz. Waste Eng.	(609) 292-9880	Anthony Drumming	11/23/88	✓	
E. Other <i>BCTS</i>	609-633-0708	Wayne Hawitz	11/23/88	✓	
Div. Env. Quality					
A. Reg. Air Pollution Control Office <i>Metro</i>	²⁰¹ 669-3935	Leo Beck Byron Sullivan	11/23/88	✓	
B. Office of Quality Assurance	(609) 292-3950				
C. Other					
Div. Solid Waste Mgt.					
A. File Room	(609) 292-0112				
B. Enforcement Office	(609) 426-0791				
C. Solid Waste Eng.	(609) 292-7875				

Agency	Phone No.	Contact	Date	File Y/N	Reviewed
Div. Hazardous Site Mitigation					
A. Central File	(609) 292-3209				
B. B. of Env. Evaluation and Risk Assmnt.	(609) 633-6801				
C. Site Management	(609) 984-2900				
D. Other					
Other N. J. DEP					
A. ORS (DEP Attorneys)	(609) 292-5697				
B. Div. of Law (Att. Gen. Office)	(609) 984-3900				
C. Div. of Science and Research	(609) 984-6070				
D. Div. of Fish & Game					
E. Right to Know	(609) 292-6714				
F. Off. of Env. Anal. (aerial photos)	(609) 292-8206				
F. Other					
N. J. Dept. of Health					
N. J. State Library	(609) 292-6220				
U. S. EPA					
A. Surveillance and Monitoring Branch	(201) 321-6686				
B. Response and Prevention Branch	(201) 321-6658				
C. Other					
Local Authorities					
A. Health Officer	201-820-4056	Frank Peterson	4/23/88		✓
B. Tax Assessor or Town Clerk					
C. Other (Fire, Police, Public Works, etc.)					

PERK CHEMICAL COMPANY INC.
217 SOUTH FIRST STREET
ELIZABETH, NEW JERSEY

INDEX OF ATTACHMENTS

MAPS:

1. USGS Maps, Elizabeth Quadrangle
2. Elizabeth Tax Maps
3. City of Elizabeth, Facility Location Map
4. Perk Chemical Site Map
5. Perk Chemical Site Grid Map
6. New Jersey Atlas Base Map (sheet 26)
7. New Jersey Atlas Water Supply Map
8. New Jersey Atlas Geologic Map
9. Water Withdrawal Map

ATTACHMENTS:

1. Temp. Operating Authorization, 1978
Incorporation Papers (Perk) 3/20/62
Annual Corporate Report 2/15/78
Dun and Bradstreet Files 9/88
2. Facility Inspections 1979 - 80
3. Hazardous Waste Facility Permit 10/31/88
4. NJDEP Site Investigation 5/6/86
5. Documents changing company name/Cycle-Chem.
Air Pollution Permits
Air Pollution Enforcement Actions
6. Fire Inspection Report, Elizabeth Fire Prevention Bureau 9/25/80
7. RCRA Permit Application 1/86
8. Sampling Plan and Analysis



Perk Chemical Co. Inc.
 217 So. First St.
 Elizabeth NJ 07206
 Union County
 lat: 40° 38' 41"
 long: 74° 11' 46"
 SCALE 1:24,000 **M-1**

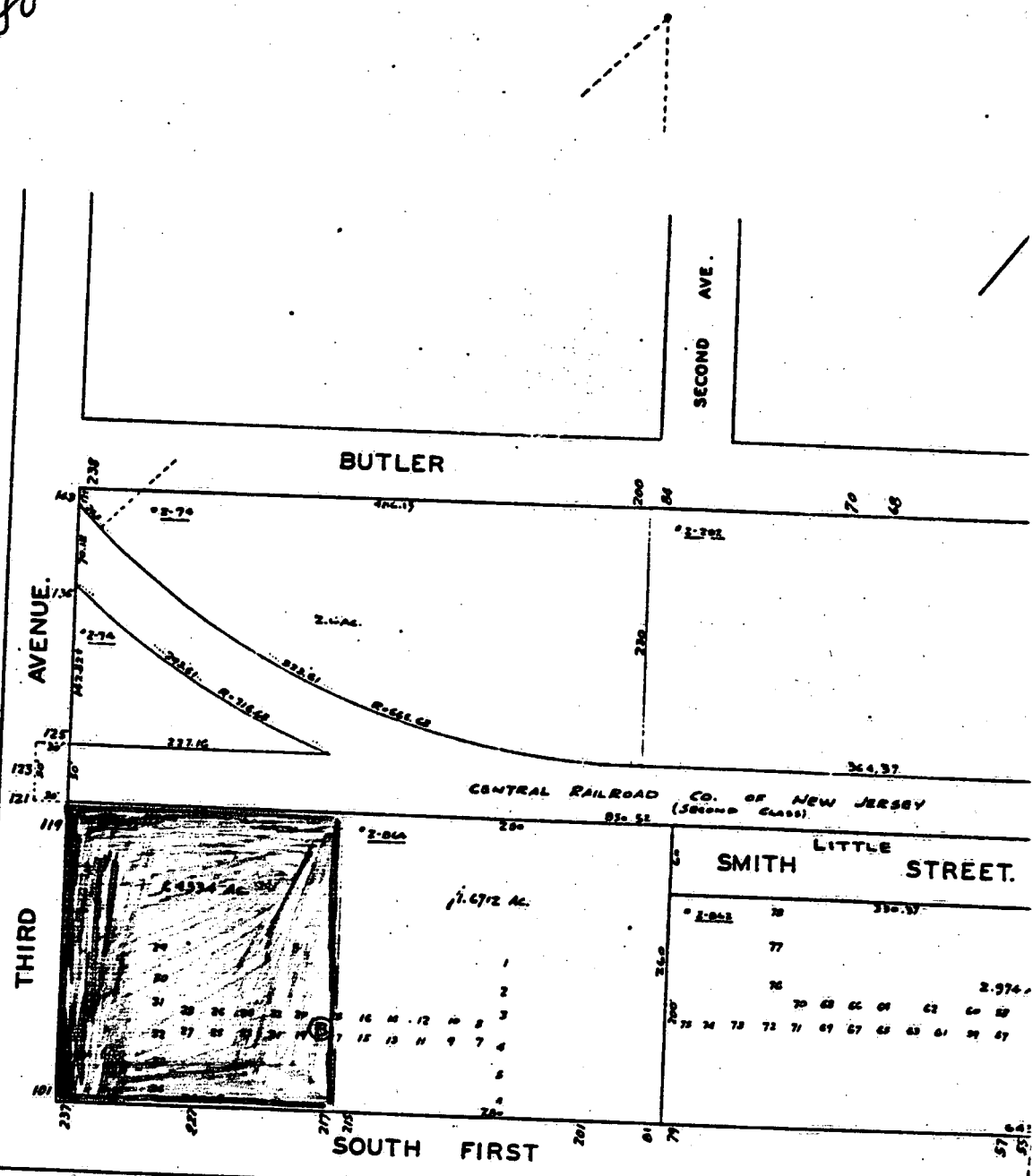
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odetic Survey

MN
 GN

1000

1" = 80'

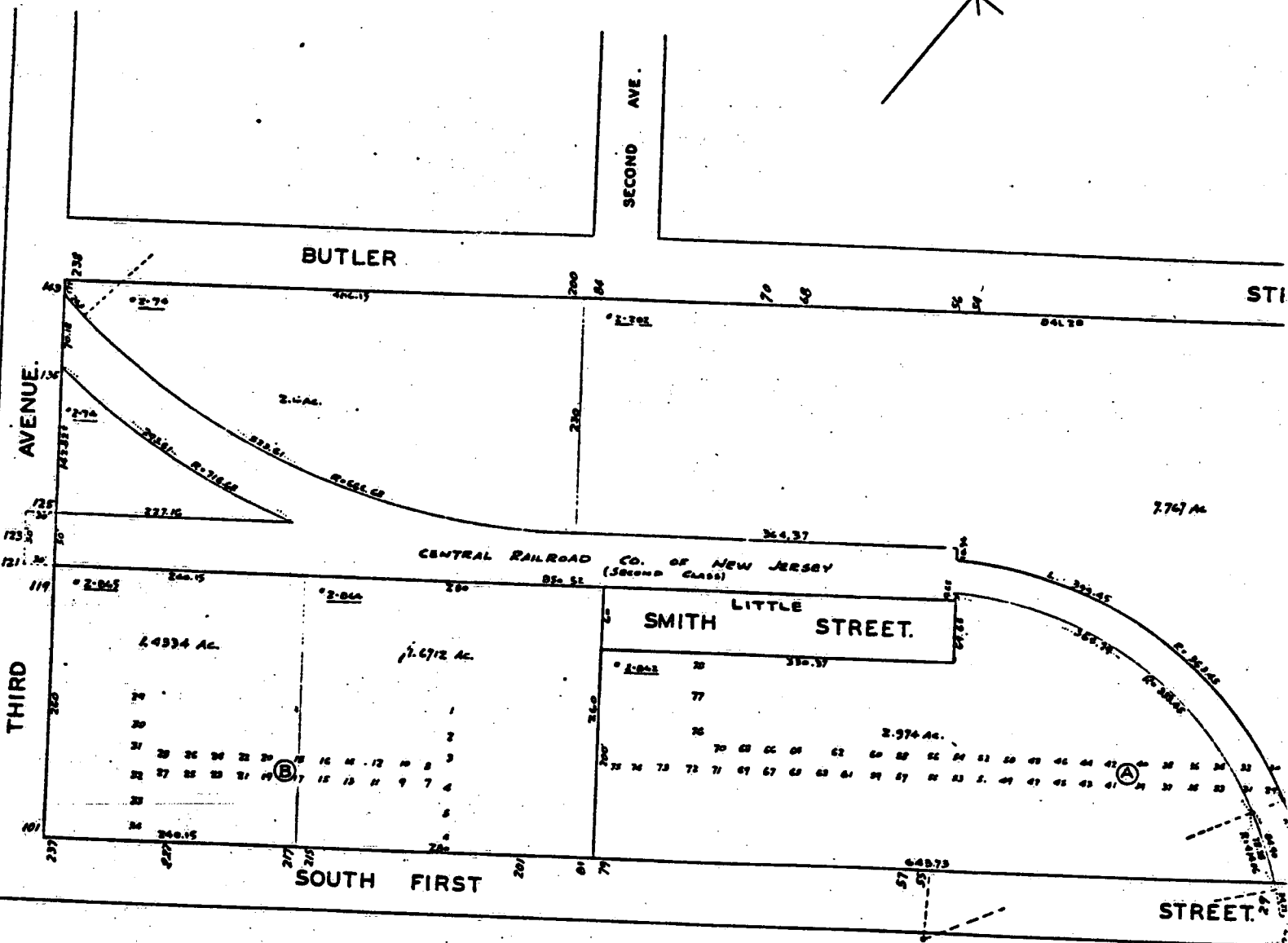


Perk Chemical
 217 So. First St.
 Elizabeth

TAX MAP

M-2

1" = 80'

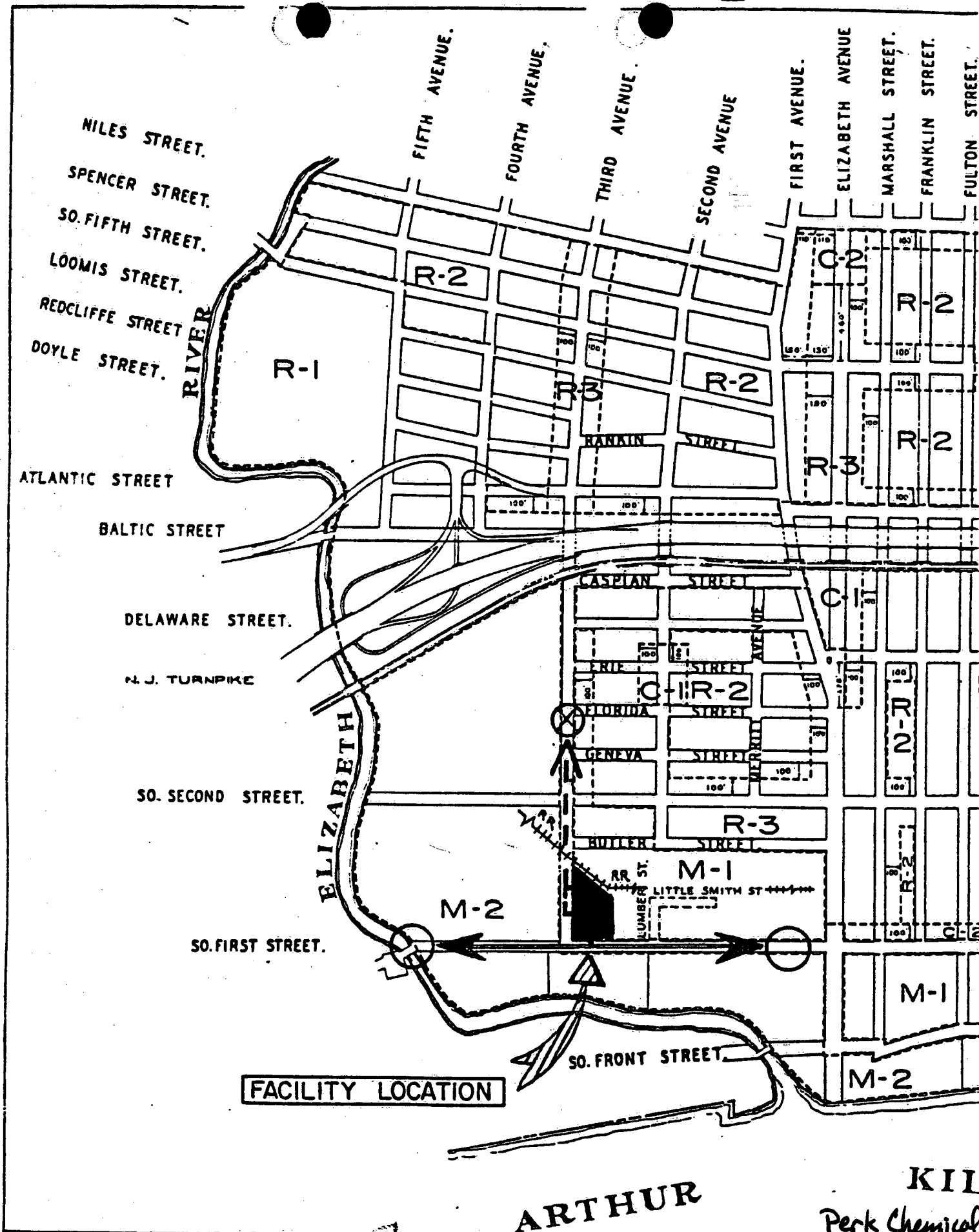


Perk Chemical
217 So. First St.

- Elizabeth

TAX MAP

M-2



M-3 Facility Location

KII
Perk Chemical
217 So. First St.
Elizabeth

THIRD

AVENUE

trailer parking area

- 1 vacuum truck
- 3 oil water mix waste tank
- 6 ~~box~~ trailers (storage)
- 3 empty tank trailers

Miscellaneous temporary storage

Corrosives acids & alkalis by aisle

corrosives (acids)

waste oil

Corrosives (caustic)

waste oil

lab packs

DEP storage area

bdg foundation

flammable waste storage

waste chlorinated solvents for reclamation

reclamation product

mix/solidification area

drum skimming area (loading and unloading)

still bottoms and chlorinated solvents, not reclaimable

tank trucks of virgin & reclaimed solvent

drum crusher

Cartridge roll-off

M-4

10

THIRD

8

6

4

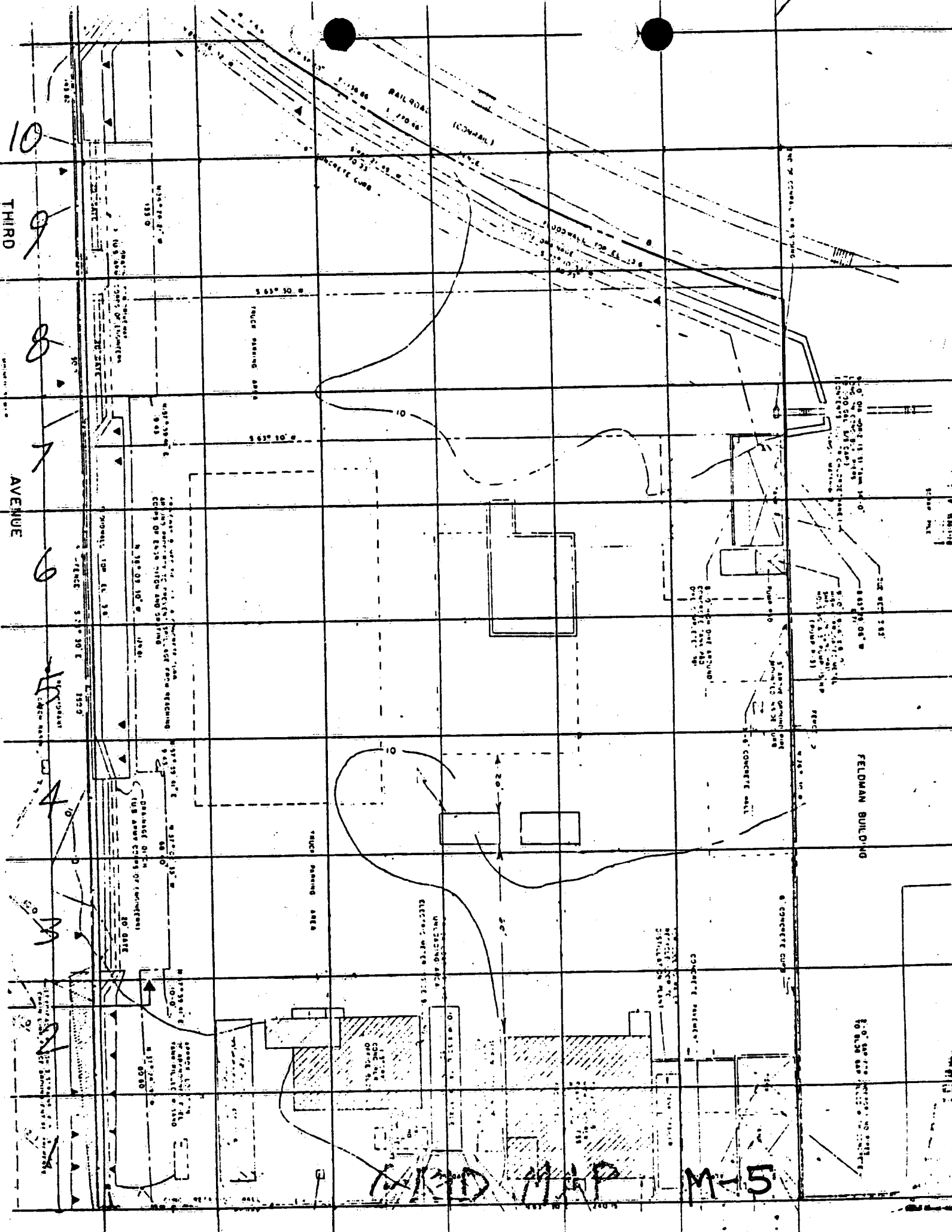
2

1

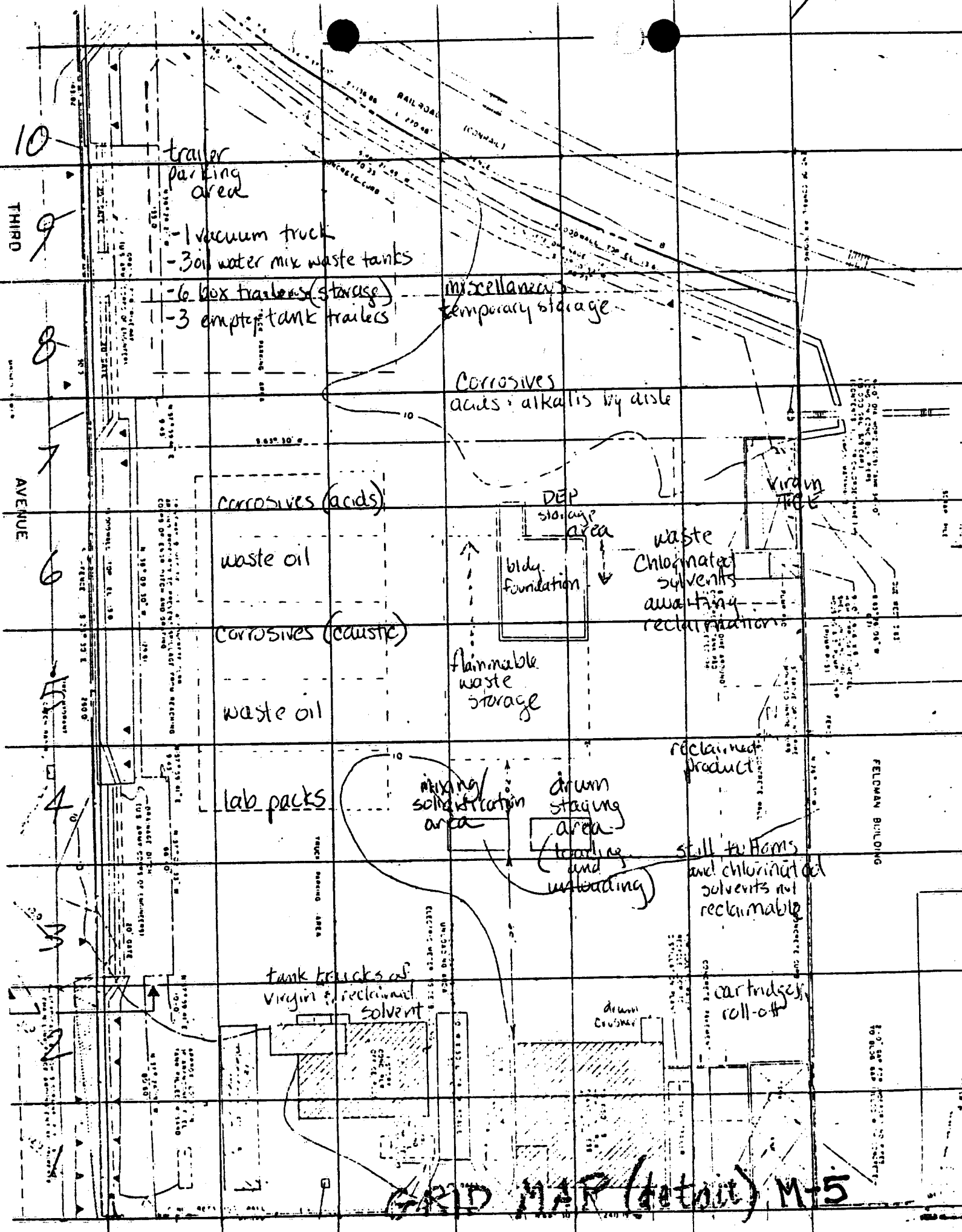
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1

2



FIELD MAP M-5



10
9
8
7
6
5
4
3
2
1

THIRD AVENUE

trailer parking area
- 1 vacuum truck
- 3 oil water mix waste tanks
- 6 box trailers (storage)
- 3 empty tank trailers

Miscellaneous temporary storage

Corrosives acids & alkalis by aisle

corrosives (acids)

waste oil

corrosives (caustic)

waste oil

DEP storage area

building foundation

waste Chlorinated solvents awaiting reclamation

flammable waste storage

lab packs

mixing/solidification area

drum staging area (loading and unloading)

reclaimed product

still bottoms and chlorinated solvents not reclaimable

tank trucks of virgin & reclaimed solvent

cartridges roll-off

virgin tree

FELDMAN BUILDING

GRID MAP (detrit) M-5








Scale: 1 Mile to an Inch

Yards
1000 2000 3000 4000

Meters
500 1000 2000 3000

New Jersey Atlas
Base Map
Sheet 26
Approx. Scale 1: 63,360

LEGEND FOR ATLAS SHEET 2 GEOLOGY

-  — INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE (INCLUDING PRIVATE WELLS)
-  — PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE
-  — UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
-  — UNSUCCESSFUL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE
-  — NO TEST — NO DATA ON YIELD

— — — — — FAULT (DASHED WHERE INFERRED)

— — — — — CONTACT (DASHED WHERE INFERRED)

 — — — — — PHYSIOGRAPHIC PROVINCE BOUNDARY

— — — — — WATER SUPPLY TRANSMISSION LINE

NOTE: WHERE THE PRECAMBRIAN FORMATION BOUNDARIES TERMINATE ABRUPTLY, IT IS THE GEOLOGIST'S OPINION THAT THE GEOLOGICAL COMPLEXITY OF THE AREA PREVENTS FURTHER INTERPRETATIONS.

Kmr — CRETACEOUS MAGOTHY AND RARITAN FORMATIONS (SAND AND CLAY)

Trb — TRIASSIC BRUNSWICK FORMATION

Trc — TRIASSIC CONGLOMERATE BEDS OF THE STOCKTON FORMATION

Trl — TRIASSIC LOCKATONG FORMATION

Trdb — TRIASSIC DIABASE

Trbs — TRIASSIC BASALT FLOWS

Sd — SILURIAN DECKER LIMESTONE AND LONGWOOD SHALE FORMATIONS

Sgp — SILURIAN GREEN POND CONGLOMERATE

Omb — ORDOVICIAN MARTINSBURG SHALE

Col — CAMBRO ORDOVICIAN KITTATINNY LIMESTONE

Ch — CAMBRIAN HARDYSTON SANDSTONE

PRECAMBRIAN:

gh — HORNBLende GRANITE WITH PYROXENE GRANITE

go — ALASKITE

am — AMPHIBOLITE

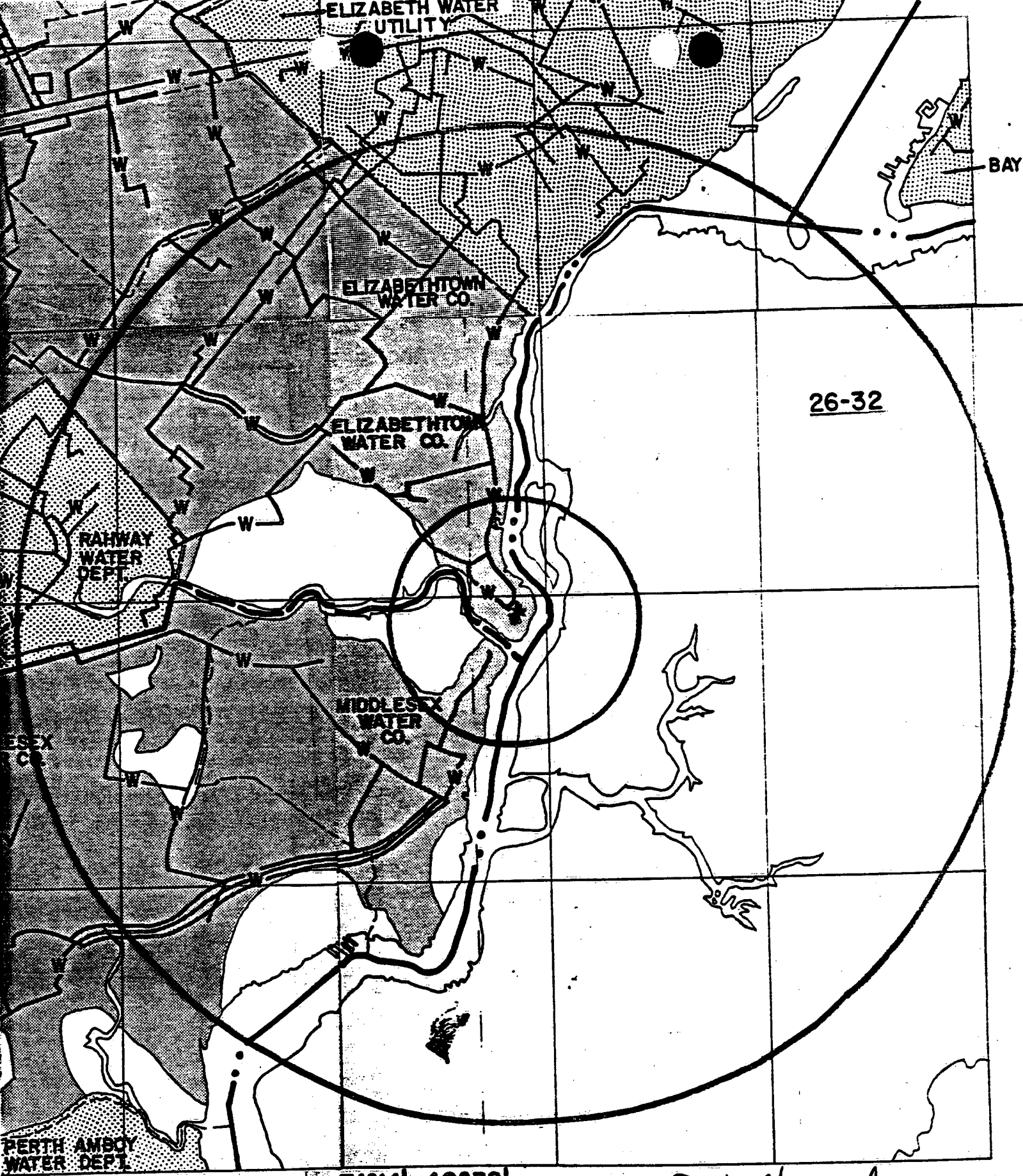
px — PYROXENE GNEISS

gnq — QUARTZ PLAGIOCLASE GNEISS

gnb — BIOTITE GNEISS

sk — SKARN, GRAPHITE SCHIST

Ind — FORMATION NOT DETERMINED

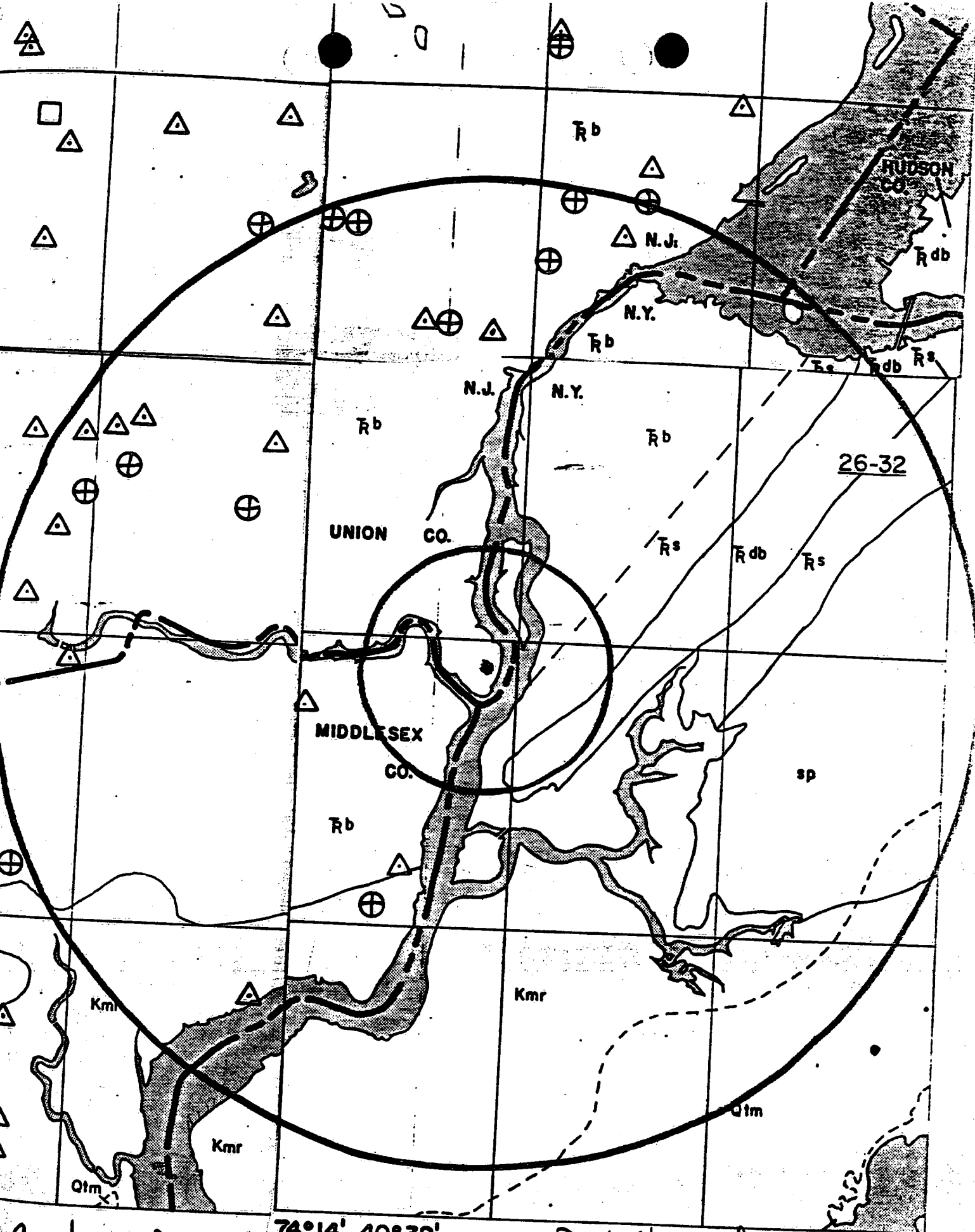


26-32

Water Supply Map

74°14' 40°32'
X=2120454.57
Y=619521.79
NJGS 8-75

Perk Chemical
217 So. First St. M-7
Elizabeth



Geologic Map

74°14' 40°32'

X=2120454.57

Y=619521.79

NJGS 11-74

Perk Chemical
217 So. First St.
Elizabeth

M-8

A. Elizabeth, Roselle

B. Arthur Kill-Morses Creek, Rahway, Elizabeth

C. 1. Cranford - Non-recording temperature and precipitation gauges
Springfield - Recording precipitation gauge

2. Map No.	Location	Period of Record
68	Elizabeth River at Nye Ave., Irvington	7/23/38
69	Elizabeth River at Lyons Ave., Irvington	7/23/38
70	Elizabeth River at York Ave., Irvington	7/23/38
71	Elizabeth River at Chancellor Ave., Irvington	7/23/38
73	West Branch Rahway River at Millburn	1938, 1940-1950
74	Rahway River near Springfield	1938-

Water Quality Standards: (explained in Atlas Sheet description)
FW2 except where classified FW3

D. Brunswick Formation (Trb), Basalt Flows (Trbs)

E. 1. Physiographic Province: Piedmont
Subdivision: Triassic Lowlands
Major Topographic Features: Wisconsin Terminal Moraine, Red Sandstone Plain
Elevations (ft. above sea level): ridges 500, valleys 50
Relief (ft.): 450

2. a. Normal Year: 47"
Dry Year: 39"
Wet Year: 55"

b. January: 32°F
July: 74°F

c. 242 days. Last killing frost: 4/20; first killing frost: 10/20

3. a. About 75% is urban or suburban. Areas of Clark, Cranford, Elizabeth, Hillside, Irvington, Millburn, Springfield, Union, Westfield are included.

b. Agricultural production is not a significant land use.

c. About 15% covered by oak forest. Forested areas primarily within the Watchung Reservation, South Mountain Reservation, and Rahway River Park System.

e. Traprock from quarries in Springfield.

d. Garden State Parkway, U.S.22, N.J.28, N.J.24, and N.J.527.

Railroads - Lehigh Valley, Penn Central, Central Railroad of New Jersey, Erie-Lackawanna, Rahway Valley

F. Essex County:

South Mountain Reservation

Union County:

Lenape Park

Rahway River Parkway

Galloping Hill Park and Golf Course

Warinanco Park

Short Hills Water Company:

Private Watershed

H. First Presbyterian Congregation of Connecticut Farms, Union

I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting or Depth of Casing</u>	<u>Total Depth</u>	<u>g/m Yield</u>	<u>Formation</u>
26-21-131	City of Orange	1960	75	75	No test	Q
26-21-138	Twp. of Millburn	1967	83	300	214	Trb
26-21-151	Millburn Springfield Co.	1956	37	645	75	Trbs-Trb
26-21-155	Short Hills Water Co.			84	677	Q
26-21-159	"			76	690	"
26-21-167	Hudson Mfg.	1966	80	210	60	Trb
26-21-175	Baltrusal Golf Club			288	32	"
26-21-177	"			515	94	"
26-21-229	Maplewood Country Club	1963	54	298	488	"
26-21-246	Elizabethtown Water Co.			400	93	"
26-21-247	"			130	400	"
26-21-268	Voorhees & Son			220	126	"
26-21-275	Bardy Farms	1955	30	450	150	"
26-21-289	Interchemical Corp.			349	200	"
26-21-294	AnSCO	1949	60	385	200	"
26-21-352	Olympic Park			300	420	"
26-21-364	Irvington, City of			452	45	"
26-21-391	Bennet Oil Co.			298	100+	"
26-21-395	Hatfield Cable & Wire Co.			380	150	"
26-21-397	Cooper Alloy Foundry Co.			325	95	"
26-21-399	Atlas Tool Co.	1959	51	300	165	"
26-21-419	Prince & Ganska Farm			255	275	"
26-21-448	"	1954	58	420	300	"
26-21-451	Howard Johnson's Rest.			200	110	"
26-21-461	Potter Engineering			70	180	Q
26-41-463	Accurate Bushing Co.	1974	135	250	165	Trb
26-21-484	Plainfield-Union Water Co.			250	160	"
26-21-491	Elizabethtown Water Co.	1965	123-1/2	300	400	"
26-21-521	Kratt, Wm. & Co.			345	210	"
26-21-527	Pyro-Plastics			344	250	"
26-21-533	Food Fair Stores, Inc.	1955	27'9"	485	110	"
26-21-538	Union Co. Park Commission			84	350	Q
26-21-566	Sucad, Inc.			235	70	Trb
26-21-573	Plainfield-Union Water Co.	1955	181'10"	522	448	"
26-21-586	Rotary Pen Co.	1962	43.5	405	120	"
26-21-589	"	1963	47	402	165	"
26-21-591	White Laboratories, Inc.			470	530	"
26-21-627	Garden State Bowling Alley	1958	41	425	250	"
26-21-659	Progressive Products			150	198	"
26-21-663	Elizabethtown Water Co.			400	525	"
26-21-666	Schering Corp.	1955	50	475	550	"
26-21-742	Diamond Expansion Bolt Co.	1963	51	260	300	"
26-21-745	Circle Plastics Co.	1962	40	302	250	"
26-21-751	Aeolian Co.			136	175	"
26-21-761	Lampert Dairy Farms, Inc.	1967	23/52	270	.6	"
26-21-798	Fibro Corp.	1957	67	250	75	"
26-21-827	Gibson Associates	1956	32'4"	271	274	"
26-21-834	Plainfield-Union Water Co.	1957	36'8"	509	457	"

26-21-838	All Disc Records	1963	36	300	215	Trb
26-21-867	Food Fair Stores, Inc.			304	150	"
26-21-881	Benderson Development, Inc.	1963	21'8"	300	383	"
26-21-916	National Color Laboratory	1964	41.5	282	239	"
26-21-935	Leland Tube Co.	1965	33	500	100	"
26-21-964	Lampert Dairy Farms, Inc.	1959	62.5	803	72	"
△ 26-21-995	Eastern Packing Co.			400	100	"

J. Geodetic Control Survey monuments described
Index Maps 25,26; adjacent Index Maps 30,31

A. Elizabeth

B. Arthur Kill-Elizabeth, Elizabeth Channel, Morses Creek; Passaic-Lower Passaic

C. 1. Newark WSO AP - Detailed meteorologic data

2. Map No.	Location	Period of Record
67	Elizabeth River at Irvington	1931-1938
68	Elizabeth River at Nye Ave., Irvington	7/23/38
72	Elizabeth River at Elizabeth	1921-
3. 262	Passaic River at Harrison	1967-1971
272	Elizabeth River at Morris Ave., Elizabeth	1964-

Water Quality Standards: (explained in Atlas Sheet description)
FW3, TW2 except where classified TW3

D. Brunswick Formation (Trb), Stockton Formation (Trs), Diabase (Trdb)

E. 1. Physiographic Province: Piedmont

Subdivision: Triassic Lowlands

Major Topographic Features: Wisconsin Terminal Moraine, Red Sandstone -
Plain, Hackensack Meadows, Newark Bay, Palisades Ridge

Elevations (ft. above sea level): ridges 300, valleys 0

Relief (ft.): 200

2. a. Normal Year: 44"

Dry Year: 36"

Wet Year: 53"

b. January: 32°F

July: 74°F

c. 243 days. Last killing frost: 4/15; first killing frost 10/20

F. Essex County:

Weequahic Park

Union County:

Elizabeth River Park

Warinanco Park

H. Boxwood Hall/Boudinot Mansion, Elizabeth (State Owned)

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
26-22-143	Irvington Smelting & Ref. Wks.	1953	71	209	192	Trb
26-22-143	"	1953	62'4"	304	300	"
26-22-145	Associated Mech. Devices	1960	83	250	80	"
26-22-149	Gallo Asphalt Co.	1961	107	201	200	"
26-22-213	Krueger Brewing Co.			656	435	"
26-22-228	Smith & Smith Funeral Parlor			776	25	"
26-22-234	U.S. Navy			565	39	"
26-22-237	Conmar Corp.			300	450	"
26-22-262	National Lock Washer Co.			800	100	"
26-22-275	Linde Air Products Co.	1954	44'5"	500	124	"
26-22-293	New York Port Authority	1968	60	370	260	"
26-22-322	Standard Bitulithic Co.	1964	89'11"	406	360	"
26-22-327	Pfeiffer, H.			505	12	"
26-22-333	Arkansas Co., Inc.	1965	72'9"	400	65	"
26-22-333	Ronson Metals Corp.	1965	80	300	220	"
26-22-334	Wilson, H.A. Co.			778	8	"
26-22-345	Chem-Fleur	1965	97	306	200	"
26-22-355	Englehard Ind., Inc.	1966	54/79'8"	428	167	"
26-22-355	"	1965	80'7"	400	401	"
26-22-356	"	1966	78.5/92	495	4	"
26-22-368	Rutherford & Delaney Hldg. Co.	1956	42	220	100	"
26-22-411	Bristol Meyers	1967	49	500	159	"
26-22-418	Dillon-Beck Mfg. Co.			379	100	"
26-22-449	Elizabethtown Water Co.			400	550	"
26-22-463	Orbis Products Corp.	1958	157	350	12	"
26-22-517	Pennick, S.B. Co.	1961	64'10"	585	24	"
26-22-518	Pure Carbonic			600	30	"
26-22-546	Black Diamond Grit Co.	1960	92	265	150	"
26-22-574	Londat Aetz Fabric Co.	1965	50	600	30	"
26-22-574	Elizabeth Abbatoir			641	75	"
⊗ 26-22-744	Morey LaRue Laundry			700	15	"
⊗ 26-22-745	"			600	14	"
Δ 26-22-785	Stevenson Car Co.			300	95	"
⊗ 26-22-786	Feldman Brothers			805	54	"
Δ 26-22-795	Reichold Chemical Co.	1967	39'6"	400	415	"
26-22-828	Singer Mfg. Co.			1200	90	"
26-22-833	General Chemical Co.	1965	106	500	70	"
⊗ 26-22-842	Clauss Bottling Works			500	50	"
⊕ 26-22-847	Elizabethtown Gas & Light			300	0	"
⊗ 26-22-852	Riker Motor Co.			500	0	"
Δ 26-22-854	Thomas & Betts Co., Inc.			500	264	"

J. Geodetic Control Survey monuments described
Index Map 26; adjacent Index Map 31

A. Arthur Kill, Elizabeth, Perth Amboy, Roselle

B. Arthur Kill-Morses Creek, Rahway, Woodbridge River; Raritan-Lower Raritan

C. 1. Rahway - Recording and non-recording precipitation gauges

2. Map No.	Location	Period of Record
75	Rahway River at Rahway	1908-1915, 1921-
77	Robinsons Branch Rahway River at Rahway	1939-
3. 75	Rahway River at Rahway	1939-
77	Robinsons Branch Rahway River at Rahway	1964-
273	Rahway River at Rahway, Woodbridge-Hazelhurst Ave.	1964-

Water Quality Standards: (explained in Atlas Sheet description)
FW2, TW2 except where classified FW3 or TW3

D. Wisconsin Terminal Moraine (Qtm), Magothy and Raritan Formations (Kmr),
Brunswick Formation (Trb)

E. 1. Physiographic Province: Piedmont

Subdivision: Triassic Lowlands

Major Topographic Features: Wisconsin Terminal Moraine, Red Sandstone
Plain

Elevations (ft. above sea level): hills 150, valleys 0

Relief (ft.): 150

Physiographic Province: Coastal Plain

Subdivision: Inner Plain

Major Topographic Features: Arthur Kill, Clay and Marl Region

Elevations (ft. above sea level): hills 200, valleys 0

Relief (ft.): 200

2. a. Normal Year: 46"

Dry Year: 38"

Wet Year: 52"

b. January: 32°F

July: 74°F

c. 242 days. Last killing frost: 4/20; first killing frost: 10/20

F. Middlesex County:

Merrill Park

Roosevelt Park

Union County:

Rahway River Parkway

Middlesex Water Company:

Private Watershed

I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting or Depth of Casing</u>	<u>Total Depth</u>	<u>g/m Yield</u>	<u>Formation</u>
26-31-132	Hyatt Roller Bearing Div.			501	500	Trb
26-31-237	Tingley-Reliance Rubber Co.			122	120	"
⊠ 26-31-239	Hatfield Wire & Cable Co.	1959	52	350	323	"
26-31-243	Rahway, City of	1953	21.75	57	355	Q
⊗ 26-31-266	Quinn & Boden	1966	35	35	23	Trb
⊠ 26-31-268	"			357	150	"
26-31-274	Rahway, City of			301	12	"
⊠ 26-31-294	Rahway Theater			349	100	"
⊠ 26-31-315	Linden Ice Co.	1959	40	550	70	"
⊠ 26-31-317	General Gum Products	1953	39'9"	316	100	"
⊠ 26-31-338	Winews, C.H. & John			200	750	"
⊗ 26-31-342	Layne, New York Co.	1955	36	310	30	"
⊗ 26-31-364	Lampert Dairy Farms Inc.	1967	39	290	17	"
26-31-465	Middlesex Water Co.	1964	32'8"	505	495	"
⊠ 26-31-533	Maclac Co.			151	91	"
26-31-576	Costa's Ice Cream Co.	1961	40	359	300	"
26-31-594	Security Steel Equip. Inc.	1957	26	614	34	"
26-31-861	Sabol National Grocery	1956	24	200	70	"
26-31-891	Swift & Co.	1955	43'8"	61	70	Kmr
26-31-894	California Refining Co.			288	92	"
⊠ 26-31-938	Second Reverse Terminal Inc.	1958	109'6"	168	150	Q

J. Geodetic Control Survey monuments described
Index Maps 30,31; adjacent Index Maps 25,26

A. Arthur Kill, Elizabeth

B. Arthur Kill-Morses Creek, Rahway, Woodbridge

C. Water Quality Standards: (explained in Atlas Sheet description)
FW3, TW2 except where classified TW3

D. Wisconsin Terminal Moraine (Qtm), Magothy and Raritan Formation (Kmr),
Stockton Formation (Trs), Diabase (Trdb), serpentine (sp)

E. 1. Physiographic Province: Piedmont

Subdivision: Triassic Lowlands

Major Topographic Features: Red Sandstone Plain, Arthur Kill

Elevations (ft. above sea level): hills 30, valleys 0

Relief (ft.): 30

Physiographic Province: Coastal Plain

Subdivision: Inner Plain

Major Topographic Features: Arthur Kill, Clay and Marl Region

Elevations (ft. above sea level): hills 20, valleys 0

Relief (ft.): 20

2. a. Normal Year: 46"

Dry Year: 38"

Wet Year: 52"

b. January: 32°F

July: 74°F

c. 242 days. Last killing frost: 4/20; first killing frost: 10/20

I. Water Well Records

<u>Location</u>	<u>Owner</u>	<u>Year Drilled</u>	<u>Screen Setting or Depth of Casing</u>	<u>Total Depth</u>	<u>g/m Yield</u>	<u>Formation</u>
△ 26-32-417	Gulf Stream Development	1967	54	145	100	Trdb
△ 26-32-485	Liebig Works			60	200	Q
⊗ 26-32-487	U. S. Metals Refining Co.			117	0	Kmr

J. Geodetic Control Survey monuments described
Index Map 31; adjacent Index Map 26

SUBJECT TO REVISION

**WATER WITHDRAWAL
POINTS AND
NJGS CASE INDEX
SITES WITHIN
5.0 MILES OF:**

**LATITUDE 403841
LONGITUDE 740746**

DRAFT

SCALE: 1:63,360
(1 Inch = 1 Mile)

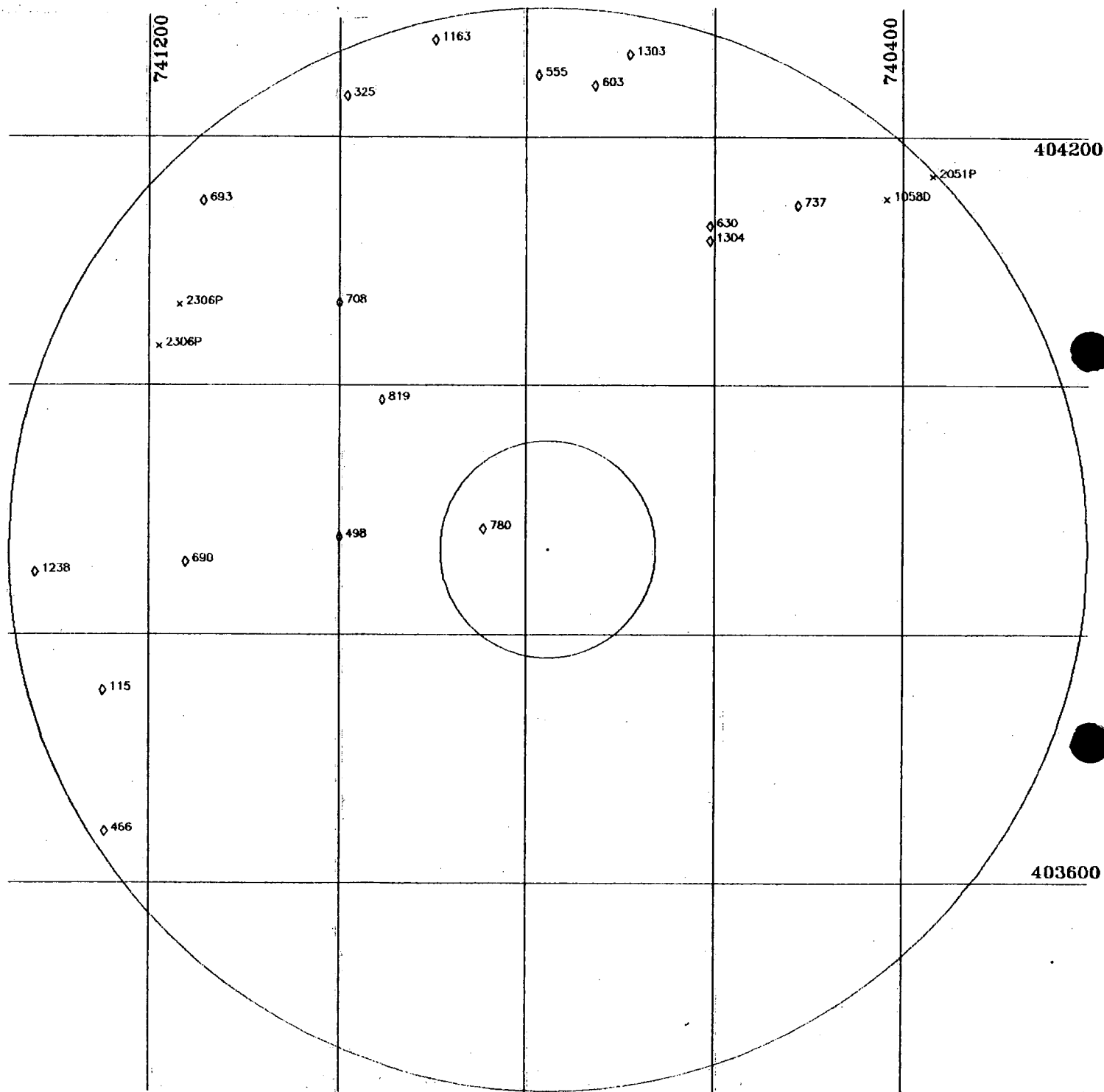
* WATER WITHDRAWAL POINTS
◇ NJGS CASE INDEX SITES
1 MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM:
NEW JERSEY GEOLOGICAL SURVEY
ON 12/22/87

PLOT PRODUCED BY:
NJDEP
DIVISION OF WATER RESOURCES
BUREAU OF WATER ALLOCATION
CN-029
TRENTON, NJ 08625

DATE: 12/20/88

SUBJECT TO REVISION



SITENUM	NAME	LAT	LON	DISTANCE	CONTAM	FMCODE1	FMCODE2	STATUS1	STATUS2
1238	CONVERTERS INK, LINDEN, UNION CO.	403330	741312	4.8	53	3070		1	C
115	EXXON REFINERY, BAYWAY LINDEN, UNION CO.	403233	741229	4.3	1	103	3070	9	H
456	LINDEN CHLORINE, LINDEN, UNION CO.	403625	741228	4.9	56	3070	0	9	
690	CHEMICAL CONTROL, ELIZABETH, UNION CO.	403835	741137	3.4	0	0100	3070	1	E
693	J.T. BAKER, PHILLIPSBURG, WARREN CO.	404129	741126	4.5	00	130	0010	1	A
498	CONRAIL E-PORT, ELIZABETHPORT, UNION CO.	403947	741000	2.0	1	103	130	8	
708	KARKOWSKI RD. LANDFILL, ELIZABETH, UNION CO.	404040	741000	3.0	50	100	3070	0	
325	FRONTAGE ROAD DRUM DUMP, NEWARK, ESSEX CO.	404220	740955	4.6	1	0130	0	1	B
919	NOLDEX, INC - ELIZABETH PLANT, UNION CO.	403953	740932	2.1	00	0103	0100	1	B
1163	OAK ISLAND-CONRAIL TERMINAL, NEWARK, ESSEX CO.	404247	740858	4.8	52			3	
780	DISCOVERIES, INC, BAYONNE, HUDSON CO.	403851	740827	0.6	63	0103	3050	1	B
555	CENTRAL STEEL DRUM, NEWARK, ESSEX CO.	404230	740752	4.4	1	130	3070	0	
603	TEXACO TERMINAL, NEWARK, ESSEX CO.	404225	740716	4.3	53	130	3070	9	
1303	DROVERS POINT, JERSEY CITY, HUDSON CO.	404240	740654	4.6	39	0101	0130	1	A
630	MOBAY CHEMICAL CORP., BAYONNE CITY, HUDSON CO.	404117	740603	3.3	00	103	0	9	
1304	ROUTE 185, JERSEY CITY, HUDSON CO.	404110	740603	3.2	39	0130	0101	1	B
757	RJP LANDFILL, JERSEY CITY, HUDSON CO.	404127	740506	3.9	58	103	101	9	

Number of Observations: 17

SITENUM	NAME	LAT	LON	DISTANCE	CONTAM	RMODE1	RMODE2	STATUS1	STATUS2
115	EXXON REFINERY, BAYWAY LINDEN, UNION CO.	403733	741229	4.3	1	103	3070	9	H
325	FRONTAGE ROAD DRUM DUMP, NEWARK, ESSEX CO.	404220	740955	4.6	1	0130	0	1	B
466	LINDEN CHLORINE, LINDEN, UNION CO.	403625	741228	4.9	55	3070	0	9	
496	CONRAIL E-PORT, ELIZABETH-PORT, UNION CO.	403847	741000	2.0	1	103	130	6	
535	CENTRAL STEEL DRUM, NEWARK, ESSEX CO.	404230	740752	4.4	1	130	3070	0	
603	TEXACO TERMINAL, NEWARK, ESSEX CO.	404225	740716	4.3	53	130	3070	9	
630	MUBAY CHEMICAL CORP., BAYONNE CITY, HUDSON CO.	404117	740603	3.3	00	103	0	9	
690	CHEMICAL CONTROL, ELIZABETH, UNION CO.	403835	741137	3.4	0	0100	3070	1	E
693	J.T. BAKER, PHILLIPSBURG, WARREN CO.	404129	741126	4.5	00	130	8010	1	A
706	KARKOWSKI RD. LANDFILL, ELIZABETH, UNION CO.	404040	741000	3.0	50	100	3070	0	
737	FJF LANDFILL, JERSEY CITY, HUDSON CO.	404127	740506	3.9	58	103	101	9	
780	DISCOVERIES, INC. BAYONNE, HUDSON CO.	403851	740827	0.6	63	0103	3050	1	B
819	NOUDIX, INC - ELIZABETH PLANT, UNION CO.	403953	740932	2.1	00	0103	0100	1	B
1163	OAK ISLAND-CONRAIL TERMINAL, NEWARK, ESSEX CO.	404247	740658	4.8	52			3	
1238	CONVERTERS INK, LINDEN, UNION CO.	403870	741312	4.8	53	3070		1	C
1303	DROVERS POINT, JERSEY CITY, HUDSON CO.	404240	740654	4.6	39	0101	0130	1	A
1304	ROUTE 185, JERSEY CITY, HUDSON CO.	404110	740603	3.2	39	0130	0101	1	B

Number of Observations: 17

NUMBER	NAME	SOURCEID	LECID	LAT	LON	BLADE	DISTANCE	COUNTY	HLN	DEPTH	GEO1	GEO2	CAPACITY
1058D	FORT LIBERTE PARTNERS			404130	740410	#	4.5	17	06				200
2051P	LIBERTY HILLSIDE ASSOC.	4600078	STANBY A	404141	740341		5.0	39	07	186	GTRB		250
	LIBERTY HILLSIDE ASSOC.	4600079	MAIN B	404141	740341		5.0	39	07	400	GTRB		455
	LIBERTY HILLSIDE ASSOC.	2600418	MAIN D	404141	740341		5.0	39	07	400	GTRB		350
2306P	HAYWARD MANUFACTURING PRODUCTS	2604712	1	404019	741134		4.1	39	19	274	GTRB		100
	HAYWARD MANUFACTURING PRODUCTS	2604867	2	404039	741141		4.1	39	19	275	GTRB		100

Number of Observations: 6

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
2306P	HAYWARD MANUFACTURING PRODUCTS	2604712	1	404019	741154		4.1	39	19	274	GTRB		100
2306P	HAYWARD MANUFACTURING PRODUCTS	2606867	2	404029	741141		4.1	39	19	275	GTRB		100
1058D	PORT. LIBERTÉ PARTNERS			404130	740410	F	4.5	17	06				200
2051P	LIBERTY HILLSIDE ASSOC.	4600078	STANDBY A	404141	740341		5.0	39	07	186	GTRB		250
2051P	LIBERTY HILLSIDE ASSOC.	4600079	MAIN B	404141	740341		5.0	39	07	400	GTRB		465
2051P	LIBERTY HILLSIDE ASSOC.	2600418	MAIN D	404141	740341		5.0	39	07	400	GTRB		350

Number of Observations: 6

Approved



5/72 Attachment 1

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLID WASTE ADMINISTRATION
TRENTON, 08625

SEATRICE S. TYLUTKI
DIRECTOR

TEMPORARY OPERATING AUTHORIZATION

Under provisions of N.J.S.A. 13:1E-11, a section of the Solid Waste Management Act, this temporary authorization is issued to:

Perk Chemical Co. Inc.
217 S. First Street
Elizabeth, NJ 07206

for the purpose of operating a:	<u>Special Waste Facility</u>
of the following type	<u>Transfer, Storage, Reprocesser, Reclamation,</u> <u>Recovery, Blending, Treatment</u>
on LOT NO. (S)	<u>865</u>
BLOCK NO. (S)	<u>2</u>
in the municipality of	<u>Elizabeth</u>
county	<u>Union</u>
under Special Waste Facility No.	<u>2004C</u>

This authorization is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This Temporary Operating Authorization expires on April 30, 1979 and is non-transferable. It is NOT a Certificate of Approved Registration to operate a special waste facility. It authorizes only temporary operation of said facility until April 30, 1979 or until Engineering Designs for said facility are reviewed and approved or denied by the Solid Waste Administration, whichever may first occur. No registration for said facility as required pursuant to the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., can be issued until the Engineering Design, as required in accordance with the Conditions set forth within this Temporary Operating Authorization are approved by the Solid Waste Administration.

This temporary authorization shall not prejudice any claim the State may have to Riparian land, nor does it permit the applicant to fill or alter, or allow to be filled or altered, in any way, lands that are deemed to be Riparian, Wetlands, stream encroachment or flood plains, or within the Coastal Areas Facility Review Act (CAFRA) zone without first acquiring the necessary grants, permits or approvals from the Department of Environmental Protection. The operation of this facility is subject to the facility obtaining all necessary State permits.

This Temporary Operating Authorization is conditioned upon compliance with and implementation of the following:

Exhibit "A"

A-1

1. PERMITTED WASTE TYPES:

Only the following Special Waste Type(s) as specifically listed below shall be accepted by this facility:

ID	WASTE
70. Waste Oil and Oil Sludge	Oils, emulsions
76. Hazardous Waste Liquids	Solvents
77. Liquid Chemical Waste	Acids, alkali solutions; non-flammable organic liquids, flammable organic liquids, emulsions

This Facility is not authorized to accept PCB wastes.

2. ENGINEERING DESIGN

An engineering design per Solid Waste Administration requirements shall be submitted within four (4) months of the date of this document. *

Failure to comply with any or all limitations heretofore mentioned or any rule or regulation of the Department of Environmental Protection may result in the Department seeking relief under N.J.S.A. 13:1E-1 et seq., the Solid Waste Management Act. Failure to comply shall constitute grounds for withdrawal of this temporary authorization.

Date May 9, 1978

Bert S. Spiller
Director
Solid Waste Administration

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOLID WASTE ADMINISTRATION
P.O. BOX 2807, TRENTON, NJ 08625

SPECIAL WASTE FACILITY
APPLICATION FOR TEMPORARY
ONE (1) YEAR REGISTRATION

OFFICE USE ONLY

Date Received 4-18-78

Application Number 2004C

NAME OF APPLICANT: (Print) NORMAN CONHEW Title TREAS.

COMPANY OR TRADE NAME: PERK CHEMICAL CO. INC

STREET ADDRESS 217 S. FIRST STREET TELEPHONE 201-355-5800

CITY ELIZABETH, N. J. 07206

STATE N. J. ZIP CODE 07206

APPLICANT'S FEDERAL EMPLOYER I.D OR SOCIAL SECURITY NO: 20-1723327

TYPE OF ORGANIZATION: (Check One) ☐ Proprietor ☐ Partnership

☒ Incorporated ☐ Municipality ☐ County ☐ State Government

☐ Federal Government Other _____

CORPORATE OR PARTNERSHIP DATA (IF any):

a. Registered in State of: NEW JERSEY County of: Union

b. Date of Filing 1967

c. Agent's Name: Last ROTHSCHILD First RAY M.I. _____

Street Address _____ Telephone _____

City _____ State _____ Zip Code _____

PERSON TO HAVE PRIME ADMINISTRATIVE AUTHORITY

Name: Last ROTHSCHILD First RAY M.I. _____

Telephone: 201-355-5800

FACILITY NAME:

PERK CHEMICAL CO., INC.

This Facility: (Check One) ☐ is, ☒ is not, ☐ will be, ☐ will not be
under PUC regulation. PUC License No. (If any) _____

FACILITY LOCATION: (Attach. Map)

Street Address 217 S. FIRST ST.

Municipality ELIZABETH, N. J.

County Union

Block No. 2 Lot (s) Plus

Block No. _____ Lot (s) _____

Block No. _____ Lot (s) _____

Block No. _____ Lot (s) _____

FACILITY PROPERTY: (Check One)

☐ Leased (Attach copy of Lease)

☒ Owned (Attach copy of Deed or Certificate of Ownership) A-1 (MI) _____

Owners Name: (Last) PERK (First) REALTY
Owners Address: Street 217 S. FIRST ST.
Municipality ELIZABETH State N. J. Zip 07206

- ☒ Transfer
☒ Storage
☒ Reprocesser
☒ Reclamation, Recovery

- ☒ Blending
☒ Treatment
☐ Disposal

Description of on-site Processes (if any)

DISTILLATION FACILITIES, BLENDING TANKS, STORAGE TANKS, NEUTRALIZATION, TREATMENT FACILITIES

(Attach Additional Sheets if Necessary)

Special Waste Type: (Check the general categories listed below as appropriate and/or list the specific waste types handled.)

<u>I.D.</u>	<u>TYPE</u>
17.	<input type="checkbox"/> Hazardous Waste-Dry
26.	<input type="checkbox"/> Oil Spill Cleanup Wastes (if applicable)
70.	<input checked="" type="checkbox"/> Waste Oil and Oil Sludge

<u>I.D.</u>	<u>TYPE</u>
76.	<input checked="" type="checkbox"/> Hazardous Waste Liquids
77.	<input checked="" type="checkbox"/> Liquid Chemical Waste

SOLVENTS

ACIDS

ALKALINE AND CAUSTIC

SLUDGES

I certify that the information contained herein and on all attachments are true to the best of my knowledge.

Signature
Name Typed

Norman Cohen

Date
Title

4/13/78
TREAS.

FACILITY : 2004C PERK CHEMICAL, ELIZABETH NJ.

Period 1/1/78 - 12/31/78

WASTE TYPE	QUANTITY
CODE DESCRIPTION	
0001 ACID SOLUTION	12003392
0002 ALKALINE SOLUTION	68400
0003 ARSENIC RESIDUES	15345
0005 CYANIDE RESIDUES	23679
0010 FATTY ACID, FASTER ALC, GLYCOL	15840
0015 OIL & OIL SLUDGES	185265
0016 PAINT & PIGMENT RESIDUES	13995
0020 PLASTICS, PLASTIZERS, RESNS, ELAS	12375
0022 SOLVENT, HALOGENATED ORGANIC	125361
0023 SOLVENT, NON-HALOGENATED ORGAN	616950
0024 STILL BOTTOMS, ORGANIC	6300
0025 STILL BOTTOMS, INORGANIC	3240
1001 2, 4, 5 - T	4500
1010 PACKED LAB CHEMICALS	4540
1013 AMMONIA WATER	495
1023 TRICHLOROETHYLENE	9405
1034 VARIOUS	28620
1053 INK	22500

Jan

2

FACILITY : 2004C PERK CHEMICAL, ELIZABETH NJ.

Period 1/1/79 - 3/31/79

WASTE TYPE	QUANTITY
CODE DESCRIPTION	
0001 ACID SOLUTION	3033457
0002 ALKALINE SOLUTION	32265
0010 FATTY ACID, FASTER ALC, GLYCOL	8510
0015 OIL & OIL SLUDGES	45855
0016 PAINT & PIGMENT RESIDUES	50450
0020 PLASTICS, PLASTIZERS, RESNS, ELAS	46420
0022 SOLVENT, HALOGENATED ORGANIC	25145
0023 SOLVENT, NON-HALOGENATED ORGAN	126315
1034 VARIOUS	16235

A-1

Description of Facility

2014C

☒ Transfer
☒ Storage
☒ Reprocesser
☒ Reclamation, Recovery

☒ Blending
☒ Treatment
☐ Disposal

Description of on-site Processes (if any)

DISTILLATION FACILITIES, BLENDING TANKS, STORAGE TANKS, NEUTRALIZATION, TREATMENT FACILITIES

(Attach Additional Sheets if Necessary)

Special Waste Type: (Check the general categories listed below as appropriate and/or list the specific waste types handled.)

I.D. TYPE

17. ☐ Hazardous Waste-Dry
26. ☐ Oil Spill Cleanup Wastes
 (if applicable)
70. ☒ Waste Oil and Oil Sludge

I.D. TYPE

76. ☒ Hazardous Waste Liquids
77. ☒ Liquid Chemical Waste

SOLVENTS

ACIDS

ALKALINE AND CAUSTIC

SLUDGES

I certify that the information contained herein and on all attachments are true to the best of my knowledge.

Signature
Name Typed

Norman Cohen
NORMAN COHEN

Date
Title

4/13/78

CREAS.

A-1

Certificate of Incorporation

528571

of

Perk Service Chemical Co. Inc.

Dated: February 9, 1962

Jerome H. Schar,
11 Commerce Street,
Newark, New Jersey

FILED and RECORDED

FEB 14 1962

Robert J. Runkle
SECRETARY OF STATE

FILING FEE 25.00
REPORTS 3.00
RECORDING 2.00
MAKING COPY 2.00
SEC. OF STATE 30.00

163538

A-1

CERTIFICATE OF INCORPORATION

OF

PERK SERVICE CHEMICAL CO. INC.

This is to certify that we, the undersigned, do hereby associate ourselves into a corporation, under and by virtue of provisions of Title 14, Corporations, General of Revised Statutes of New Jersey and the several supplements thereto and acts amendatory thereof, and do severally agree to take the number of shares of capital stock set opposite our names, respectively.

FIRST: The name of the corporation is Perk Service Chemical Co. Inc.

SECOND: The location of the principal office in this state is 338 Wilson Avenue, Newark, New Jersey.

THIRD: The name of the agent therein and in charge thereof, upon whom process against this corporation may be served, is Ray Rothschild.

FOURTH: The objects for which this corporation is formed, are:

To carry on the business of refining perchlorethylene, trichlorethylene and chemicals of any and all nature, and to engage in the sale, distribution, refining, manufacturing, importing, exporting of all kind of chemicals, pharmaceuticals and other types of preparations and to deal in, prepare, buy, sell, refine, import, export and deal in and with all substances, ingredients, supplies, materials, machinery, apparatus, appliances and things capable of being used in any such business, either by wholesale or retail;

To apply for, obtain, register, purchase or otherwise acquire, and hold, own, use, operate, introduce and sell, assign or otherwise dispose of any and all other works, formulae, secret processes, trade names and distinctive marks, and all inventions, improvements

and processes used in connection with or secured under letters patent or otherwise of the United States or of any other country, and any governmental grants or concessions, and to use, exercise, develop, grant licenses in respect of or information so acquired;

To hold, own, sell, deal in all works, laboratories or buildings necessary thereto and to engage in the sale, refining and distribution of all by products of any materials, chemicals, solids, liquids or metals and to construct, acquire, maintain, work, operate, sell or otherwise dispose of lands, plants, businesses, good will, machinery, apparatus, tools and conveniences;

To carry on the business of chemists, druggists, dyers, salters, oil and color men, importers and manufacturers of, and dealers in pharmaceutical, medicinal, chemical, industrial and other preparations and articles, compounds, cements, oils, paints, pigments, varnishes, drugs, dyeware, paint and color grinders, makers and dealers in proprietary articles of all kinds, and of electrical, chemical photographic supplies, toilet articles, physicians and hospital supplies, surgical and scientific apparatus and materials;

To engage in import and export trade as principal or as the agent, broker, consignee or factor of others in respect of the acquisition, transportation, shipment, purchase, sale, contracting for, dealing in, trade and commerce in, or other disposition of the products of the company and of goods, wares and merchandise in general;

To purchase, lease or otherwise acquire lands and buildings in this state or elsewhere for the erection and establishment of a manufactory or manufactories and workshops with suitable plant, engines and machinery with a view to manufacture, buy, sell, import and export, or otherwise deal in, either directly or indirectly, through the medium of agents or otherwise, in particular to acquire the business now carried on by various companies with the land and buildings, plant, stock and other properties connected with the business;

To purchase or otherwise acquire patents, patent rights and privileges, improvements or secret processes for or in any way relating to all or any of the objects aforesaid, and to grant licenses for the use of, or to sell or otherwise deal with any patents, patent rights and privileges, improvements or secret processes acquired by the company; to sell, mortgage, lease or otherwise deal with real and personal property of the company;

To engage in the business of developing oil wells and gas wells and to that end to buy, sell and lease oil and gas wells and develop, operate, lease or sell the same; to furnish, sell and supply natural gas; to sell oil and generally engage in the business of refining the same and to sell, supply and dispose of the product of said wells and properties; construct pipe lines and mains;

To purchase, hold, own, take over, maintain, develop, sell, construct, convey, lease, mortgage, exchange, improve and to deal in real estate and real property or any interest and rights therein, without limit as to amount; to purchase, hold, own, take over, sell, hire, lease, mortgage, pledge, chattels and chattels real without limit as to amount, and to lend money on bonds secured by mortgages on real estate, or to lend money on bonds secured by mortgages for future advances on real estate;

To acquire by purchase, lease or exchange, hire or otherwise, lands or any interest therein; to erect, construct, maintain and improve houses, buildings, sewers, drains or works of other kinds on any lands of the company, or upon any other lands, and to rebuild and improve existing houses and buildings thereon;

To convert any of the lands so acquired into roads, streets or other public places or conveniences, and to generally improve the property of the company;

To sell, let, lease, mortgage or otherwise dispose of the lands, houses, buildings and other property of the company; to direct

the management and sale of all property, buildings and lands and to transact on commission the business of a real estate agent generally;

To manufacture, produce, buy, sell, export, import and generally deal in rubber and gutta percha, and all goods of which rubber and gutta percha are component parts, and the various materials entering into the manufacture of any and all such goods;

To carry on the business of planters and to purchase, lease, exchange or otherwise acquire such lands and property of every kind and description for the planting, growing and cultivating of rubber trees as may be necessary or convenient in connection with said objects;

To engage in the general trucking business for the delivery and transportation of commodities and to purchase, construct, own, lease, and operate vehicles of all kind and to carry on the general business of warehousing and sale and distribution of any new, used, manufactured, refined or otherwise created products;

To acquire the good will, business, property and assets and to assume or undertake the whole or any part of the liabilities of any person, firm, association or corporation and to pay for the same in cash, stock, bonds, debentures or other securities of this corporation or otherwise, as the directors may determine;

The corporation may use its surplus earnings or accumulated profits in the purchase or acquisition of its own capital stock from time to time as its Board of Directors shall determine and such capital stock so purchased may, if the directors so determine, be held in the treasury of the company as treasury stock to be thereafter disposed of in such manner as the directors shall determine as being proper;

To conduct its business and have one or more offices, and unlimitedly and without restriction to hold, purchase, lease, mortgage and convey real and personal property, in or out of this state, and in such place and places in the several states and territories of the

5

United States, colonial possessions or territorial acquisitions of the United States, and in foreign countries as shall from time to time be found necessary and convenient for the purposes of the company's business;

To do all and everything necessary, suitable, convenient or proper for the accomplishment of any of the purposes, or the attainment of any one or more of the objects herein enumerated, or incidental to the powers herein named, or which shall at any time appear conducive or expedient for the protection or benefit of the corporation, either as holders of or interested in, any property or otherwise; with all the powers now or hereafter conferred by the laws of New Jersey upon corporations under the act hereinafter referred to;

To carry on the business (whether manufacturing or otherwise) which may in the discretion of the directors seem advantageous and capable of being carried on in conjunction with the above or calculated directly or indirectly to enhance the value of the corporation's property rights.

FIFTH: The total authorized capital stock of the corporation is one thousand shares of common stock, without nominal or par value.

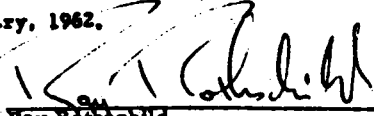
All or any part of the shares of common stock, without nominal or par value, may be issued by the corporation from time to time and for such consideration as may be determined upon and fixed by the Board of Directors as provided by law.

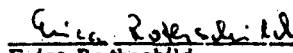
SIXTH: The names and addresses of the incorporators and the number of shares subscribed for by each, the aggregate of which is the amount of capital stock with which the company will commence business, are as follows:

Ray Rothschild	43 Agate Road	100 shares
	E. Brunswick, N. J.	
Erika Rothschild	43 Agate Road	100 shares
	E. Brunswick, N. J.	
Erika Smith	306 Newark Avenue	100 shares
	Union, N. J.	

SEVENTH: The period of existence of this com, any
will be perpetual.

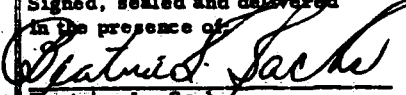
IN WITNESS WHEREOF we have hereunto set our hands
and seals this 9th day of February, 1962.


Ray Rothschild (L.S.)


Erica Rothschild (L.S.)


Erika Tag-Smith (L.S.)

Signed, sealed and delivered
in the presence of

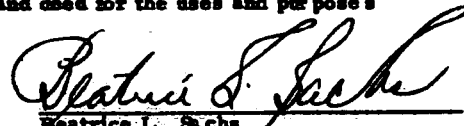

Beatrice L. Sachs

STATE OF NEW JERSEY:

SS

COUNTY OF ESSEX:

NE IT REMEMBERED that on this 9th day of February, 1962 before me
the subscriber, a notary public of New Jersey, personally appeared
Ray Rothschild, Erica Rothschild and Erika Smith who I am satisfied are
the persons named in and who executed the foregoing Certificate of
Incorporation, and I having first made known to them the contents
thereof, they acknowledged that they signed, sealed and delivered the
same as their voluntary act and deed for the uses and purposes
therein expressed.


Beatrice L. Sachs
A Notary Public of New Jersey
Commission expires 3/11/62

Certificate of Amendment of
Certificate of Incorporation

S 28571

Park Service Chemical Co. Inc.

-to-

Park Chemical Co. Inc.

Dated: March 20 1962

Jerome H. Sehar
11 Commerce St.
Newark, N.J.

FILED and RECORDED

MAR 29 1962

Robert W. Mulholland
SECRETARY OF BOARD

FILED FEE
RECORDING
CERTIFYING COPY

$$\begin{array}{r} \$41.00 \\ 2.00 \\ \hline 2.00 \\ \hline \$44.00 \end{array}$$

167991

CERTIFICATE OF AMENDMENT OF CERTIFICATE OF
INCORPORATION

CERTIFICATE

Certificate of Perk Service Chemical Co. Inc., here-
after to be known as Perk Chemical Co. Inc.

The location of the principal office in this State is 338
Wilson Avenue, Newark, New Jersey.

The name of the agent therein and in charge thereof,
upon whom process may be served against this corporation is Ray
Rothschild.

RESOLUTION OF DIRECTORS

The Board of Directors of Perk Service Chemical Co.
Inc., a corporation organized under the laws of the State of New Jersey,
on this 8th day of March, 1962 do hereby

RESOLVE AND DECLARE: That it is feasible that the corporate
name be changed from Perk Service Chemical Co. Inc. to Perk Chemical
Co. Inc. and that the location of the principal office in this State be
changed from 338 Wilson Avenue, Newark, New Jersey to 411 Commerce
Street, Newark, New Jersey and that the name of the agent therein and
in charge thereof upon whom process may be served be designated as
Jerome H. Scher, and be it further

RESOLVED: That the Board of Directors of this
corporation do hereby call a meeting of all stockholders to be held at the
office of the corporation at 338 Wilson Avenue, Newark, New Jersey on
March 15, 1962 at 2:00 o'clock in the afternoon to take action on the
above resolution.

CERTIFICATE OF CHANGE

Perk Service Chemical Co. Inc., a corporation organized under the laws of the State of New Jersey, does hereby certify that it has authorized a change of corporate name from Perk Service Chemical Co. Inc. to Perk Chemical Co. Inc.; that the principal office be changed from 338 Wilson Avenue, Newark, New Jersey to 11 Commerce Street, Newark, New Jersey; that the agent in charge be changed from Ray Rothschild to Jerome H. Scher and that said change of corporate name, principal office and registered agent has been duly declared by Resolution of the Board of Directors of said corporation to be advisable and said Resolution has been duly and regularly assented to by all of the stockholders of said corporation having voting powers, at a meeting duly called by the Board of Directors for that purpose.

IN WITNESS WHEREOF said corporation has made this certificate under its seal and the hands of its president and secretary this 20 day of March, 1962.

PERK

Ray Rothschild (L.S.)
Ray Rothschild

Erica Rothschild (L.S.)
Erica Rothschild

ATTEST:-

Erica Rothschild
Erica Rothschild, Secy.

STATE OF NEW JERSEY:

SS

COUNTY OF ESSEX:

BE IT REMEMBERED that on this 20 day of March, 1962 before me the subscriber, a notary public of New Jersey, personally appeared Erica Rothschild, secretary of Perk Service Chemical Co. Inc. hereafter to be known as Perk Chemical Co. Inc., the corporation named in and which executed the foregoing certificate, who being by me duly sworn according to law, doth depose and say and make proof to my satisfaction that she is the secretary of said corporation; that the seal affixed to said corporation certificate is the corporate seal of said corporation; the same being well known to her; that it was affixed by order of said corporation; that Ray Rothschild is the president of said corporation; that she saw Ray Rothschild as such president sign said certificate and affix said seal thereto and deliver said certificate and heard him declare that he signed, sealed and delivered said certificate as the voluntary act and deed of said corporation by its order and by authority of its Board of Directors and by the vote, either in person or by proxy, duly constituted and thereunto duly authorized, of more than two thirds in interest of each class of said stockholders having voting powers, for the uses and purposes therein expressed; and that she signed her name thereto at the same time as subscribing witness.

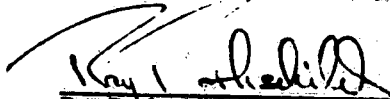
Erica Rothschild
Erica Rothschild

Sworn to and subscribed
before me this 20 day
of March, 1962

Beatrice L. Sachs
Beatrice L. Sachs
A notary public of New Jersey
Commission expires 3/12/67

STOCKHOLDERS ASSENT TO CHANGE

We, the subscribers, being all of the stockholders of Perk Service Chemical Co. Inc., hereafter to be known as Perk Chemical Co. Inc., at a meeting regularly called for the purpose, voted in favor of changing the corporate name of said corporation to Perk Chemical Co. Inc. and to change the principal office from 338 Wilson Avenue, Newark, New Jersey to 11 Commerce Street, Newark, New Jersey and do now, pursuant to the statute, hereby give our written assent to said change.


Ray Rothschild


Erica Rothschild

6932-5500-00

01 FILING MONTH

STATE OF NEW JERSEY

OFFICE OF SECRETARY OF STATE

ANNUAL REPORT BY DOMESTIC OR FOREIGN CORPORATION

THIS REPORT IS FOR THE CALENDAR YEAR OF 1978 ONLY

NOTICE: EVERY CORPORATION IN NEW JERSEY MUST FILE AN ANNUAL REPORT WITH THE SECRETARY OF STATE EACH CALENDAR YEAR. FAILURE TO COMPLY MAY SUBJECT THE CORPORATION TO A \$200.00 PENALTY.

ALL CORPORATIONS—MUST FILE THIS REPORT WITHIN 30 DAYS OF FILING MONTH INDICATED ABOVE.
BELOW REGISTERED AGENT AND REGISTERED OFFICE ARE OF RECORD IN THIS OFFICE.PERK CHEMICAL CO INC
IRVING N YANKOWITZ
134 EVERGREEN PL
E ORANGE N J 07018

02-14-62

07018

6171

DO NOT STAPLE, FOLD, BEND
OR MUTILATE

373921

PAY THIS AMOUNT
FILING FEE \$25.00

FEB 15 1978

SECRETARY OF STATE

Make checks payable to:

SECRETARY OF STATE
STATE HOUSE
TRENTON, N.J. 08625

(No cash please)

OPTIONAL: A FORM TO CHANGE EITHER REGISTERED AGENT OR REGISTERED OFFICE WILL BE
SENT IF INDICATED BY CHECKING THIS BOX ☐ SEND SELF-ADDRESSED ENVELOPE.

(ALL CORPORATIONS MUST INDICATE MAIN BUSINESS ADDRESS ON REVERSE SIDE)

14-22075

Advanced 77511-F

COMPLETE REVERSE SIDE SIGN ON REVERSE SIDE

MAIN BUSINESS ADDRESS	STREET	CITY	ZIP CODE	IF OFFICER, INDICATE TITLE
	217 So. First St.,	Elizabeth, N.J.	07206	
NAMES OF DIRECTORS				
Ray Rothschild	43 Agate Road,	E. Brunswick, N.J.	08816	Pres.
Norman Cohen	35 Frost Ave.,	E. Brunswick, N.J.	08816	Sec.-Trea.

THE NEXT ANNUAL MEETING OF THE STOCKHOLDERS FOR ELECTION OF DIRECTORS IS APPOINTED TO BE HELD
ON _____ DAY OF _____ 197THE UNDERSIGNED CERTIFIES THAT THE CORPORATION IS IN COMPLIANCE WITH
14-A:5-28 OF THE NEW JERSEY STATUTES WITH REGARD TO BOOKS AND RECORDS.
RIGHT OF INSPECTION.ALL REPORTS MUST BE
SIGNED
WITNESS BY HAND

DATE

PRESIDENT OR OFFICER

Advanced 77207-B

Joe De Santos

09dec68 08:25:54 User106174 Session A175.1

\$0.21 0.007 Hrs File1

\$0.21 Estimated cost File1

\$0.08 Telenet

\$0.25 Estimated cost this search

\$0.29 Estimated total session cost 0.007 Hrs.

File 515:DUNS Electronic Yellow Pages - 9/88

(Copr. 1988 D&B)

** /UNDERTEN is not working. Use 1972 SIC codes for PC= and SC=

Set	Items	Description
-----	-------	-------------

7ss vernal/co

S1	39	VERNAL/CO
----	----	-----------

7ss st=nj

S2	261610	ST=NJ
----	--------	-------

7ss s1 and s2

	54	S1
	261610	S2

S3	2	S1 AND S2
----	---	-----------

7t 3/5/1-3

3/5/1

42777
VERNAL EQUINOX INC
37 WELLESEY STREET
MAPLEWOOD, NJ 07040

MAILING ADDRESS:
P O BOX 533
MAPLEWOOD, NJ 07040

TELEPHONE: 201-762-1066

COUNTY: ESSEX SMSA: 409 (NEWARK, NJ)

INDUSTRY GROUP: MANUFACTURING

PRIMARY SIC:
3544 SPECIAL TOOLS & DIES MFRS.

THIS IS A(N):
CORPORATION
HEADQUARTERS LOCATION
D-U-N-S NUMBER: 11-534-4509
NUMBER OF EMPLOYEES: B (1-4)
CITY POPULATION: 4 (10,000-24,999)

3/5/2
0268241 DMI RECORD AVAILABLE IN FILE 516
VERNAL CORPORATION
FELDMAN P & SONS
201-207 S FIRST ST
ELIZABETH, NJ 07206

MAILING ADDRESS:
P O BOX 122
ELIZABETH, NJ 07206

TELEPHONE: 201-352-0042

COUNTY: UNION SMSA: 409 (NEWARK, NJ)

INDUSTRY GROUP: WHOLESALE

PRIMARY SIC:
5093 SCRAP & WASTE MATERIALS - WHOLE.

THIS IS A(N):
CORPORATION
SINGLE LOCATION
D-U-N-S NUMBER: 01-123-3348
NUMBER OF EMPLOYEES: E (20-49)
CITY POPULATION: 7 (100,000-249,999)
7b 516

09dec88 08:26:51 User106174 Session A175.2

\$1.15 0.016 Hrs File515
\$0.60 2 Types in Format 5
\$0.60 2 Types
\$1.75 Estimated cost File515
\$0.18 Telenet
\$1.93 Estimated cost this search
\$2.22 Estimated total session cost 0.023 Hrs.

File 516:D & B - Duns Market Identifiers 11/88
(Capt. 1988 D&B)

** Additional information on selected companies is available
** in File 519, DUNS FINANCIAL RECORDS PLUS.

Set Items Descri

7ss dn=01-123-5348

51 1 DN=01-123-5348

7t 1/5/1

1/5/1

0162639

VERNAL CORPORATION

FELDMAN F & SONS

201-207 S FIRST ST

PO BOX 122

ELIZABETH, NJ 07206-0122

TELEPHONE: 201-352-0042

COUNTY: UNION SMSA: 409 (NEWARK, NJ)

BUSINESS: WHOLESALERS SCRAP METAL

PRIMARY SIC: 5093 SCRAP & WASTE MATERIALS - WHOLS.

LATEST YEAR ORGANIZED: 1954

STATE OF INCORPORATION: NJ

DATE OF INCORPORATION: JUN 19 1946

	LATEST YEAR	TREND YEAR (1986)	BASE YEAR (1983)
SALES (\$):	4,000,000	NA	NA
EMPLOYEES TOTAL:	26	30	20
EMPLOYEES HERE:	26		

SALES GROWTH (%): NA

EMPLOYMENT GROWTH (%): 50

SQUARE FOOTAGE: 10,000 RENTED

SALES TERRITORY: REGIONAL

THIS IS:

A SINGLE LOCATION

A CORPORATION

DUNS NUMBER: 01-123-5348

PRESIDENT: WITZER, ALLAN / PRESIDENT

7logoff

09dec88 08:27:41 User106174 Session A175.3

\$1.40 0.014 Hrs File516

\$2.50 1 Types in Format 5

\$2.50 1 Types

\$3.90 Estimated cost File516

\$0.15 Telenet

\$4.05 Estimated cost this search

\$6.27 Estimated total session cost 0.037 Hrs

Logoff: level 18.5.9 A 08:27:45

415 48 DISCONNECTED 00 40 00:00:02:28 148 16

A-1

07dec88 09:01:21 User106174 Session A170.2

\$6.91 0.0 Hrs File6

\$4.80 12 Types Format 3

\$4.50 12 Types

#11.71 Estimated cost File6

#1.06 Telenet

#12.77 Estimated cost this search

#13.06 Estimated total session cost 0.103 Hrs.

Logoff: level 18.5.9 A 09:01:26

415 48 DISCONNECTED 00 40 00:00:06:55 258 26

Joe De Santis
4-30-18

TELENET
609 171

TERMINAL=

07dec88 15:56:42 User106174 Session A171.1

\$0.12 0.004 Hrs File1

\$0.12 Estimated cost Page 1
\$0.04 Telenet
\$0.16 Estimated cost this search
\$0.16 Estimated total session cost 0.004 Hrs.

File 515:DUNS Electronic Yellow Pages - 9/88

(Copr. 1988 D&B)

** /UNDERTEN is not working. Use 1972 SIC codes for PC= and SC=

Set	Items	Description
-----	-------	-------------

?ss perk(3w)chemical/co

S1	73	PERK/CO
----	----	---------

S2	10790	CHEMICAL/CO
----	-------	-------------

S3	2	PERK(3W)CHEMICAL/CO
----	---	---------------------

?t 3/3/1-2

3/5/1

2005721

PERK PRODUCTS & CHEMICAL CO

45 INDUSTRY STREET

NASHVILLE, TN 37210

MAILING ADDRESS:

P O BOX 100585

NASHVILLE, TN 37210

TELEPHONE: 615-242-6157.

COUNTY: DAVIDSON SMSA: 368 (NASHVILLE-DAVIDSON, TN)

INDUSTRY GROUP: MANUFACTURING

PRIMARY SIC:
2879 AGRICULTURAL CHEMICALS MFRS, N.E.C.
SECONDARY SIC(S):
5161 CHEMICAL & ALLIED PRODUCTS - WHOLS.

THIS IS A(N):
COMPANY
SINGLE LOCATION

D-U-N-S NUMBER: 06-583-9508
NUMBER OF EMPLOYEES: C (5-9)
CITY POPULATION: 8 (250,000-499,999)

3/5/2
0036245 DMI RECORD AVAILABLE IN FILE 516
PERK-CHEMICAL COMPANY
217 SOUTH 1ST ST
ELIZABETH, NJ 07206

TELEPHONE: 201-355-5800

COUNTY: UNION SMSA: 409 (NEWARK, NJ)

INDUSTRY GROUP: TRANSPORTATION, COMMUNICATION, UTILITIES

PRIMARY SIC:
4952 SEWAGE SYSTEMS COMPANIES
SECONDARY SIC(S):
5161 CHEMICAL & ALLIED PRODUCTS - WHOLS.
2869 ORGANIC CHEMICALS MFRS - INDUSTRIAL
4953 REFUSE COLLECTION SERVICES

THIS IS A(N):
CORPORATION
HEADQUARTERS LOCATION

D-U-N-S NUMBER: 00-220-0046
NUMBER OF EMPLOYEES: E (20-49)
CITY POPULATION: 7 (100,000-249,999)

?ss cycle(3w)chem?/co
S4 4396 CYCLE/CO
S5 17059 CHEM?/CO
S6 2 CYCLE(3W)CHEM?/CO

?ss st=nj
S7 261610 ST=NJ

?ss s6 and s7
2 S6
261610 S7
S8 1 S6 AND S7

?t 8/5/1

8/5/1
4664157 DMI RECORD AVAILABLE IN FILE 516
CYCLE-CHEM INC
217 SOUTH 1ST ST
ELIZABETH, NJ 07206

TELEPHONE: 201-355-5800

COUNTY: UNION SMSA: 409 (NEWARK, NJ)

INDUSTRY GROUP: TRANSPORTATION, COMMUNICATION, UTILITIES

PRIMARY SIC:
4953 REFUSE COLLECTION SERVICES
SECONDARY SIC(S):
5161 CHEMICAL & ALLIED PRODUCTS - WHOLS.

THIS IS A(N):
CORPORATION
HEADQUARTERS LOCATION

D-U-N-S NUMBER: 12-225-4477
NUMBER OF EMPLOYEES: E (20-49)
CITY POPULATION: 7 (100,000-249,999)

?ss clean(3w)venture/co
S9 4838 CLEAN/CO
S10 4643 VENTURE/CO
S11 1 CLEAN(3W)VENTURE/CO

?t 11/5/1

11/5/1

2831675

DMI RECORD AVAILABLE IN FILE 516

CLEAN VENTURE INC

1160 STATE ST

PERTH AMBOY, NJ 08861

MAILING ADDRESS:

P O BOX 936

PERTH AMBOY, NJ 08862

TELEPHONE: 201-442-4900

COUNTY: MIDDLESEX SMSA: 395 (N BRNSWK-PRTH AMBY,NJ)

INDUSTRY GROUP: TRANSPORTATION, COMMUNICATION, UTILITIES

PRIMARY SIC:

4469 WATER TRANSPORT, NEC

SECONDARY SIC(S):

4953 REFUSE COLLECTION SERVICES

7699 REPAIR SERVICES, N.E.C.

THIS IS A(N):

PROFESSIONAL CORPORATION

HEADQUARTERS LOCATION

D-U-N-S NUMBER: 08-563-4335
NUMBER OF EMPLOYEES: F (50-99)
CITY POPULATION: 5 (25,000-49,999)

?b 516

07dec88 15:59:04 User106174 Session A171.2

\$2.81 0.039 Hrs File515

\$1.20 4 Types in Format 5

\$1.20 4 Types

\$4.01 Estimated cost File515

\$0.43 Telenet

\$4.44 Estimated cost this search

\$4.60 Estimated total session cost 0.043 Hrs.

File 516:D & B - Duns Market Identifiers 11/88

(Copr. 1988 D&B)

** Additional information on selected companies is available

** in File 519, DUNS FINANCIAL RECORDS PLUS.

** /DFR is not working. Use 1972 SIC codes for PC= and SC=

Set Items Description

?ss dn=00-220-0046

S1 1 DN=00-220-0046

?t 1/5/1

A-1

0024683
PERK CHEMICAL COMPANY
217 SOUTH 1ST ST
ELIZABETH, NJ 07206-1502

TELEPHONE: 201-355-5600
COUNTY: UNION SMSA: 409 (NEWARK, NJ)

BUSINESS: DISPOSAL OF HAZARDOUS WASTE AND WHOLESALERS, RECOVERS AND RECYCLES
INDUSTRIAL CHEMICAL SOLVENTS

PRIMARY SIC: 4952 SEWAGE SYSTEMS COMPANIES
SECONDARY SIC: 5161 CHEMICAL & ALLIED PRODUCTS - WHOLS.
2869 ORGANIC CHEMICALS MFRS - INDUSTRIAL
4953 REFUSE COLLECTION SERVICES

LATEST YEAR ORGANIZED: 1985
STATE OF INCORPORATION: NJ
DATE OF INCORPORATION: FEB 14 1962

	LATEST YEAR	TREND YEAR (1986)	BASE YEAR (1983)
SALES (\$):	2,640,000E	NA	NA
EMPLOYEES TOTAL:	27	27	25
EMPLOYEES HERE:	27		
SALES GROWTH (%):	NA		
EMPLOYMENT GROWTH (%):	8		

SQUARE FOOTAGE: 6,300 OWNED
SALES TERRITORY: REGIONAL NUMBER OF ACCOUNTS: 4,000

THIS IS:

A MANUFACTURING LOCATION
A SINGLE LOCATION
A SUBSIDIARY
A CORPORATION
A MILLION DOLLAR DIRECTORY COMPANY

DUNS NUMBER: 00-220-0046
PARENT DUNS: 12-225-4477 CYCLE-CHEM INC
CORPORATE FAMILY DUNS: 04-525-5437 WITTE CHASE CORP

PRESIDENT: FLEISCHMANN, PAUL / PRESIDENT
SECRETARY: CHASE, STEVE / SECRETARY

?ss dn=12-225-4477
S2 1 DN=12-225-4477
?t 2/5/1

2/5/1
1576270
CYCLE-CHEM INC
217 SOUTH 1ST ST
ELIZABETH, NJ 07206-1502

TELEPHONE: 201-355-5600
COUNTY: UNION SMSA: 409 (NEWARK, NJ)

BUSINESS: DISPOSAL OF HAZARDOUS WASTE AND WHOLESALERS, RECOVERS AND RECYCLES
INDUSTRIAL CHEMICAL SOLVENTS

PRIMARY SIC: 4953 REFUSE COLLECTION SERVICES

LATEST YEAR ORGANIZED: 1984
STATE OF INCORPORATION: NJ
DATE OF INCORPORATION: AUG 21 1981

	LATEST YEAR	TREND YEAR (1986)	BASE YEAR (1983)
SALES (\$):	3,540,000E	NA	NA
EMPLOYEES TOTAL:	35	NA	NA
EMPLOYEES HERE:	35		

SALES GROWTH (%): NA
EMPLOYMENT GROWTH (%): NA

SQUARE FOOTAGE: 6,300 RENTED
SALES TERRITORY: REGIONAL
BANK: CHEMICAL BANK

NUMBER OF ACCOUNTS: 4,000

THIS IS:

A HEADQUARTERS LOCATION
A SUBSIDIARY
A CORPORATION

DUNS NUMBER: 12-225-4477
HEADQUARTER DUNS: 12-225-4477
PARENT DUNS: 04-525-5437 WITTE CHASE CORP
CORPORATE FAMILY DUNS: 04-525-5437 WITTE CHASE CORP
PRESIDENT: FLEISCHMANN, PAUL / PRESIDENT
VICE PRESIDENT: PERSICO, MIKE / VICE PRESIDENT
SECRETARY: CHASE, STEVE / SECRETARY

?ss dn=08-563-4335
S3 1 DN=08-563-4335
?t 3/5/1

3/5/1
1140806
CLEAN VENTURE INC
1160 STATE ST
PO BOX 936
PERTH AMBOY, NJ 08862-0936

TELEPHONE: 201-442-4900
COUNTY: MIDDLESEX SMSA: 395 (N BRNSWK-PRTH AMBY,NJ)

BUSINESS: OIL SPILL AND HAZARDOUS MATERIAL CLEANUP AND TANK CLEANING

PRIMARY SIC: 4469 WATER TRANSPORT, NEC
SECONDARY SIC: 4953 REFUSE COLLECTION SERVICES
7699 REPAIR SERVICES, N.E.C.

LATEST YEAR ORGANIZED: 1982
STATE OF INCORPORATION: NJ
DATE OF INCORPORATION: APR 4 1977

	LATEST YEAR	TREND YEAR (1986)	BASE YEAR (1983)
SALES (\$):	5,570,000E	NA	NA
EMPLOYEES TOTAL:	77	NA	NA
EMPLOYEES HERE:	65		

SALES GROWTH (%): NA
EMPLOYMENT GROWTH (%): NA

A-1

SQUARE FOOTAGE: 17,000 RENTED
NUMBER OF ACCOUNTS: 250
BANK: FIRST FIDELITY BANK

THIS IS:

A HEADQUARTERS LOCATION
A SUBSIDIARY
A CORPORATION

DUNS NUMBER: 08-563-4335
HEADQUARTER DUNS: 08-563-4335
PARENT DUNS: 04-525-5437 WITTE CHASE CORP
CORPORATE FAMILY DUNS: 04-525-5437 WITTE CHASE CORP
PRESIDENT: PERSICO, MICHAEL S. / PRESIDENT
VICE PRESIDENT: KUCSMA, JOHN / VICE PRESIDENT
SECRETARY: CALLAHAN, BARBARA / SECRETARY
CHASE, STEVE / SECRETARY

?logogg

>>>Invalid set number

?logoff

07dec88 16:01:22 User106174 Session A171.3

\$3.80 0.038 Hrs File516

\$7.50 3 Types in Format 5

\$7.50 3 Types

\$11.30 Estimated cost File516

\$0.42 Telenet

\$11.72 Estimated cost this search

\$16.32 Estimated total session cost 0.081 Hrs.

Logoff: level 18.5.9 A 16:01:26

415 48 DISCONNECTED 00 40 00:00:05:09 242 25



#3
=

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E.
DIRECTOR

MEMORANDUM

LINO F. PEREIRA
DEPUTY DIRECTOR

14 NOV 1985

TO: Randy Correll, Supervisor
Contracts and Procurement

FROM: Karl J. Delaney
Bureau of Field Operations

SUBJECT: Perk Chemical
Meyersdale PA

Pursuant to your request of October 8, 1985, I hereby attach copies of the most recent enforcement information relative to the subject site.

Following discussion with the facility inspector, William Zavacky, it is this writer's opinion that this firm is acceptable for use as a prime or subcontractor to the State of New Jersey. This would be limited to the transportation, storage, treatment and disposal of authorized materials in any manner presently stipulated by the facility's operating permits or authorizations.

// Please be advised that ownership of this facility has recently changed through acquisition by Clean Venture, Inc. on or about October 15, 1985.

Should there be any change in facility status, this writer will advise you as soon as such is known.

FO31:sw

Attachments

c. J. Rogalski
R. Corcoran
J. Skoviac
W. Burshtin
T. Cavalier
V. Krisak
D. Shotwell

GREENSTONE AND SOKOL
COUNSELLORS AT LAW
39 HUDSON STREET
HACKENSACK, NEW JERSEY 07601
(201) 488-3930

MR0
#3

HERMAN GREENSTONE (1927-1959)
JAY W. GREENSTONE (N.J. AND FLA. BARS)
LEON d. SOKOL (N.J. AND FLA. BAR)
KENNETH H. MACK
STEVEN J. PICCO
JOSEPH F. BEHOT, JR.
JOSEPH B. FIORENZO (N.J. AND N.Y. BAR)
LINDA J. SAMAY
PATRICK D. KENNEDY
NEIL YOSKIN (N.J. AND PA. BAR)
MICHAEL C. URCIUOLI

PLEASE RESPOND TO: 226 W. STATE STREET
TRENTON, N.J. 08608
(609) 393-0621

INTERSTATE PLAZA SUITE 124
1499 WEST PALMETTO PARK ROAD
BOCA RATON, FLORIDA 33432
(305) 391-4900

July 8, 1985

MARSHALL P. KRUPNICK
(N.J. AND FLA. BAR)
OF COUNSEL
TELEX: 219212

Joseph Rogalski, Assistant Director
Division of Waste Management
NJ Department of Environmental Protection
120 Route 156
Yardville, New Jersey 08620

Re: Perk Chemical Company, Proposed Transfer
of Ownership & Operational Control

Dear Mr. Rogalski:

This will confirm our conversation of July 2, 1985 concerning the above referenced matter. We represent Cycle Chem Inc., which has proposed to purchase the stock of Perk Chemical Company and which has applied for approval of that transaction pursuant to N.J.A.C. 7:26-12.5.

Cycle Chem submitted the required A-901 Disclosure Forms to DEP on February 7, 1985. On May 14, the Department contacted Cycle Chem and advised them that an alternative information statement would have to be used instead of the A-901. However, as we discussed, all of the information required for a review was contained in the A-901, and it is likely that the State Police had begun their review. Accordingly, we would appreciate your checking with the State Police to see if this is the case, so that DEP's review of Cycle Chem's application can be expedited.

GREENSTONE AND SOKOL

Page Two
July 8, 1985

Thank you for your attention to this matter. Please
call me if you have any questions.

Sincerely,
GREENSTONE & SOKOL



NEIL YOSKIN

NY

c: . Allan T. Edwards, Division of Environmental Quality
George McCann, Division of Water Resources
Gerard Burke, Esquire, Office of Regulatory Services
Mark Kelly, Esquire
Paul L. Fleischmann
John Kucsma

A-1



State of New Jersey

DEPARTMENT OF STATE
COMMERCIAL RECORDING BUREAU
P.O. BOX 1330 • TRENTON, N.J. 08625

TRANSACTION NO
80 0087600

SHEET NO 1

RECEIPT OF PAYMENT FOR : STATUS REPORT (1)

FILING DATE 07/07/8

DEPT OF ENVIRONMENTA
P O BOX 2807
TRENTON

NJ 08625

FILING FEE
LICENSE FEE
INQUIRY FEE
SEARCH FEE
PHOTO COPY FEE
CERTIFIED COPY
MISC FEE
POSTAGE FEE
TOTAL-AMT
PAYMENT AMOUNT

PAYFR DAVE VOLZ
PAYMENT TYPE GRATIS

AUDIT CODE 11

CORP NAME: PERK CHEMICAL CO. INC.

DOMESTIC PROFIT STATUS: ACTIVE CORP NO: 6932550000 FOLDER S 28571

INCORPORATION DATE: 02/14/1962 STATE: NJ

STOCK: TERM: PERPETUAL PURPOSE: GENERAL

AGENT STATUS: ACTIVE

DAVID E. YANKOWITZ
134 EVERGREEN PL
E ORANGE N J

07018

ANNUAL REPORT DUE: JANUARY LATEST RECEIVED: 3 4 80 FOR THE YEAR 80
STATUS 80: PD 79: PD 78: PD 77: PD 76: PD 75: NA

DOCKETED JUDGEMENTS OUTSTANDING: NONE

INCORPORATORS:

PREVIOUS NAME: NONE

*

A-1

FORM OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.: #2004C Date 6/5/80 Time: 10:00

Facility Type: Trns./Stor./Reproc./Recov./Bldg./Trtmt.

Street: S. First Street

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5000

County: Union

Person Contacted: Ray Rothschild
Position: President

Inspector: Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: E Temp: 70 Speed 5 MPH

Security Measures: Fence ☒ Yes ☐ NoGuard ☐ Yes ☐ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ NoSource: drum storage, process roomLeaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ NoSource: drum storage, drum staging operationsOverall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage:

Total No. 4500 Size 55 gal. Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or morePalletized: ☐ Yes ☒ No

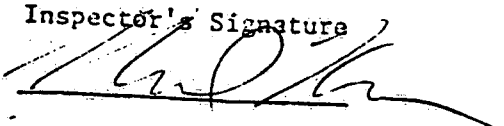
Observations and/or Other Comments

Contaminated rags from drums placed on ground in west end of facility.

It is recommended that the rags be placed in an acceptable container (drum, roll off etc.) to prevent spillage onto ground as they are removed from drums for pumping.

Alleged power lines are intercom and telephone lines power lines. Enter office building at southern corner. (R)

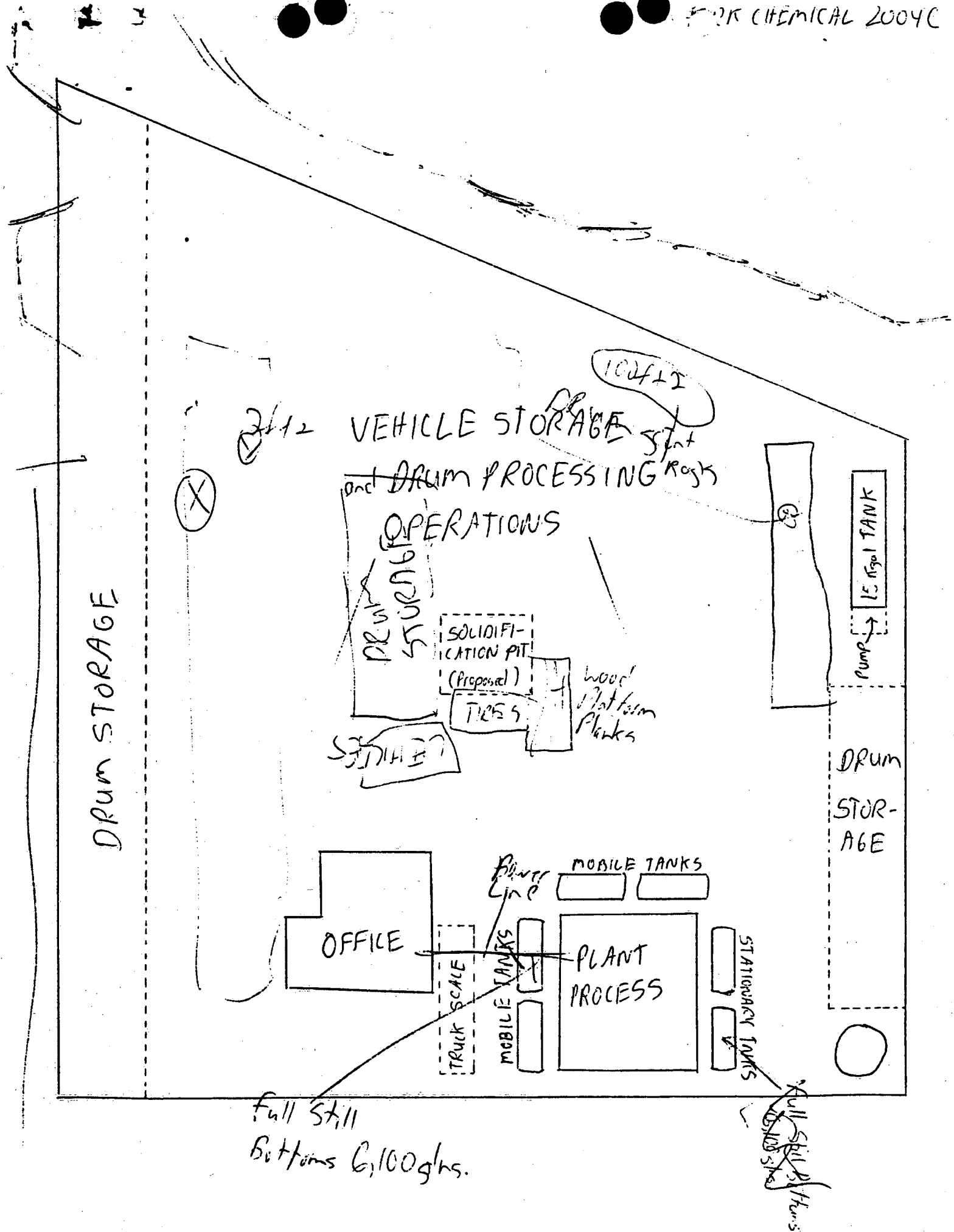
Inspector's Signature



Facility Operator's Signature



A-2



50-6

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Park Chemical I.D.: # 20048 Date: 12/31/80 Time: 1030
Facility Type: Transfer, storage, reprocess, reclamation, recovery
blending, treatment
Street: 217 So. First St. Lot: 865 Block: 2
Town: Elizabeth Phone: 355-5000
County: Union Person Contacted: Mr. Cohen
Inspector: Dunne / Dante Position:

~~Weather Conditions:~~ Clear ☒ Rain ☐ Snow ☐

Wind Direction: W Temp: 28 Speed: 5 MPH

Security Measures: Fence ☒ Yes ☐ No
Guard ☐ Yes ☒ No
Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: See comment #3

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 4150 Size 55 gal Type Metal

Supplied by Smith White

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☐ No

Observations and/or Other Comments

these drums will be repacked this afternoon.

- (4) Pek is not experiencing any major problems with new manifests. However there are a few blanks, such as expected date of arrival that are not being filled in. They are also behind in mailing copies back to the state.

Inspector's Signature

Thomas W. De

Facility Operator's Signature

Thomas W. De

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.# 20046 Date: 12/24/80 Time: 10:00

Facility Type: Transfer, storage, reprocess, reclamation, recovery

Street: 217 S. First Street Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5000

County: Union Person Contacted: Ray Rothschild
Position: President

Inspector: Dante/Downey

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: 0 Temp: 30 Speed 0 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. less than 4,500 size 55 Type steel
according to Mr. Rothschild

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No on concrete pad

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

20-6

Facility Name: Perk Chemical I.D. # 2004G Date: 11/12/80 Time: 1300

Facility Type: Transfer, Storage, Reprocessor, Reclamation, Recovery

Street: 217 South 1st Street Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5000

County: Union Person Contacted: Ray Rothschild
Position: President

Inspector: Downey/Dante

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: NW Temp: 50 Speed: 25 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. under 4000 Size _____ Type _____
*estimate by Ray Rothchilds

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No On concrete pad

Observations and/or Other Comments

Waste Administration concerning this situation.

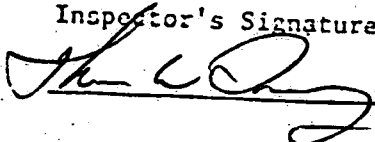
5. Perk's two storage tanks which contain virgin material will be labeled by next week to identify material inside. This is in accordance with paragraph 26 of TOA.

6. According to Ray Rothschild a plan to test and monitor the structural integrity of storage tanks has been submitted.

7. Both storage tanks are equipped with ports suitable for sampling contents of tank as well as a safe means of access to port in accordance with paragraph 28 of TOA.

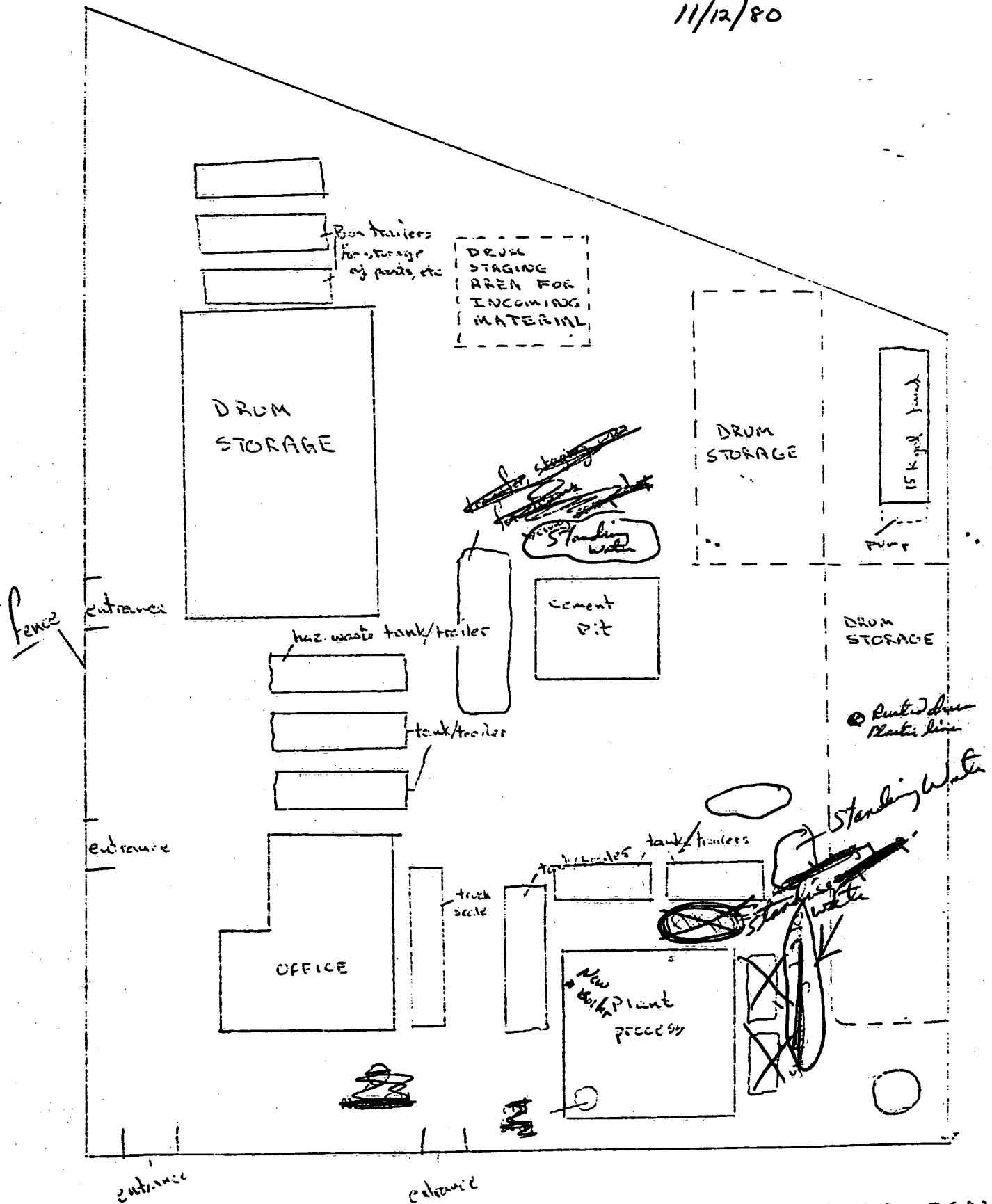
8. Work is continuing on flood wall on the north side of Perk's property.

Inspector's Signature



- Facility Operator's Signature

11/12/80



PERK CHEMICAL NOT TO SCALE
ELIZABETH

4. The facility is snow covered and no leaks have been found during inspection.

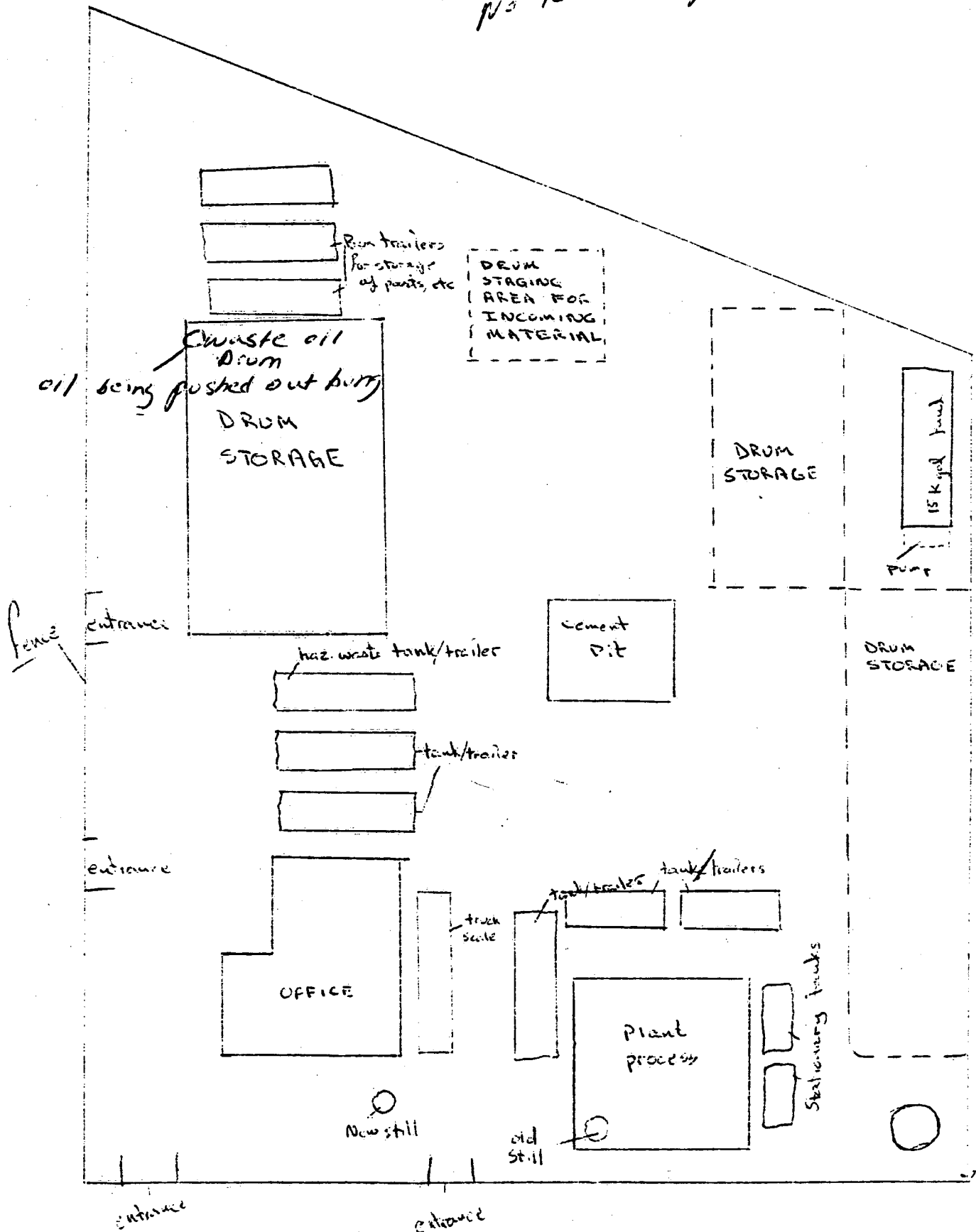
5. Very little activity at facility since last inspection.

Inspector's Signature

Robert Dante

Facility Operator's Signature

no leaks or spills



A-2

PERK CHEMICAL NOT TO SCALE
ELIZABETH

FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D. #: 2004G Date: 11/6/80 Time: 9:00

Facility Type: Transfer, Storage, Reprocess, Reclamation, Recovery

Street: 217 S. First St. Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5000

County: Union Person Contacted: Ray Rothschild
Position: President

Inspector: Dante

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: NW Temp: 50 Speed: 5-10 MPH

Security Measures: Fence ☒ Yes ☐ NoGuard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

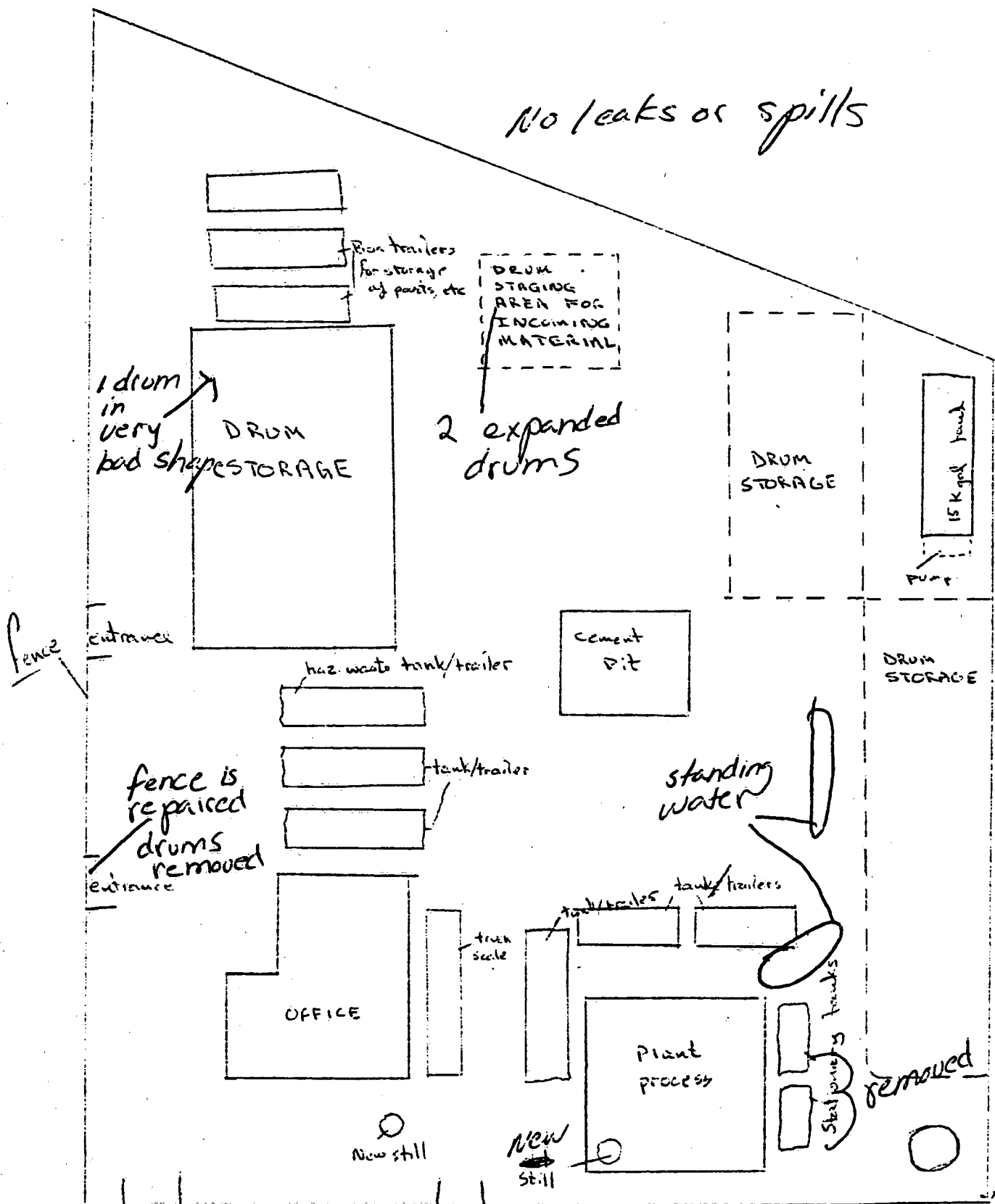
Drum Storage:

Total No. 4000 or less Size according to Mr. Rothschild Type _____

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or morePalletized: ☐ Yes ☒ No On concrete pad.

11/1/00

No leaks or spills



Arm corps of engineers working on product A2 PERK CHEMICAL NOT TO SCALE ELIZABETH

e

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical

I.D.:# 2004C

Date: 11/18/80 Time: 9:45

Facility Type: Transfer, storage, reprocessor

Street: 217 S. First St.

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5800

County: Union

Person Contacted: Ray Rothschild
Position: President

Inspector: Dante/Downey

Weather Conditions: Clear ☐ Rain ☒ Snow ☐

Wind Direction: NW Temp: 40 Speed 15-20 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. Less than 4200 Size 55 gal Type steel

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No On concrete pad.

A-2

Observations and/or Other Comments

6. One drum in bad shape should be repacked. Drum contains mixed chlorinated solvents.
7. Perk has received their plastic lined drums and two rows of drums which contain HCL acid some in bad shape. The bad drums will be repacked by next week.
8. Expanded drum of flammable solvent. Mr. Rothschild said it will be taken care of.
9. Facility has much standing water from recent rain.

Inspector's Signature

Robert D. Davis

- Facility Operator's Signature

30-6 e

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.# 2004G Date: 11/25/80 Time: 12:00

Facility Type: Transfer, storage, reprocessor, reclamation, recovery

Street: 217 S. First St. Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5000

County: Union Person Contacted: Ray Rothschild
Position: President

Inspector: Downey/Dante

Weather Conditions: Clear ☐ Rain ☐ Snow ☐ Overcast ☒

Wind Direction: NW Temp: 50 Speed 10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

XXXXXXXXXXXX: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Contaminated water

Source: See comment

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage:

Total No. 4000 Size 55 gal Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No on concrete pad

A-2

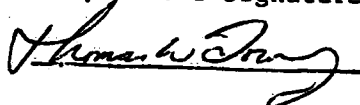
Observations and/or Other Comments

last nights and yesterdays heavy rain. (See map). Water in ponds nearest process building was yellowish in color. According to Mr. Rothschild this resulted from material on top of and inside of empty drums plus possible wash down from concrete pad. Photos were taken of area and 2 split samples were taken, A0330, B0330, A0331, B0331. Another pond of water with an oil sheen was noted next to concrete pit.

6. Blown drum noted during last weeks inspection has been repacked

Operator comment to add to inspector's comment: Article 26 of the TOA specifically refers to "identify the waste type use of each tank". It has been explained to the inspector that this particular storage tank does not contain any waste whatsoever, and therefore is not covered under item 26 of the TOA. We have offered our voluntary cooperation in marking this tank and another tank on the premises to identify the virgin contents and in case of the other tank this has been done. The lettering for the second tank is on hand and will be completed, time permitting, by the time the inspector revisits the premises. It is our strong feeling that labeling of this tank is not covered under the TOA, since the use of this tank is not for waste. We therefore feel that characterizing the omission of labeling as violation is erroneous and casts an unnecessary bad reflection on our operation.

Inspector's Signature



- Facility Operator's Signature



BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D. #: 2004G Date: 12/2/80 Time: 1400

Facility Type: Transfer, Storage, Reprocessor, Reclamation, Recovery

Street: 217 S. First Street Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5000

County: Union Person Contacted: Ray Rothschild
Position: President

Inspector: Tom Downey

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: SE Temp: 50 Speed: 10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: See comment #6.

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 3900 or less Size 55 gal. Type metal
supplied by Keith White

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No On concrete pad. See comment #7.

A-2

Observations and/or Other Comments

6. A spill from an unknown source was noted near cement pit (see map). Spill was about 3'x3' and 3'x1'. I advised Keith White to have spill material and contaminated soil shoveled up into a drum to be manifested out. Mr. White said this should be taken care of.
7. Some rows of drums are still stacked 4 high. According to Perk's TOA they should be stacked 3 high. Perk has contested this point with the DEP and is waiting a decision on this.

Inspector's Signature

John W. O'Connell

- Facility Operator's Signature

e

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical

I.D.# 20046

Date: 12/8/80 Time: 11:00

Facility Type: Transfer, storage, reprocess, reclamation, recovery

Street: 217 S. First St.

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5000

County: Union

Person Contacted: Ray Rothschild
Position: President

Inspector: Dante/Downey

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: Temp: 57 Speed 0 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: See comment 4.

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. about 4,400 Size 55 gal Type steel
according to Mr. Rothschild

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☐ No On concrete pad.

A-2

DRUM STORAGE

speedy dry
placed down to
pick up standing water



leaking
drum of cyclo solvent

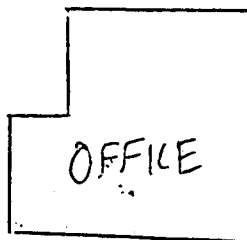
VEHICLE STORAGE and DRUM PROCESSING OPERATIONS

SOLIDIFI-
CATION PIT
(proposed)



spill from
last week cleaned
up

speedy dry placed down
to pick up standing
water



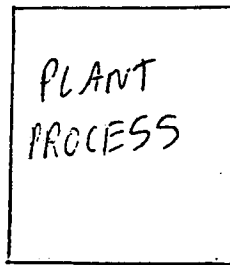
OFFICE

TRUCK SCALE

MOBILE TANKS

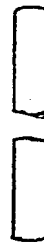


MOBILE TANKS



PLANT
PROCESS

STATIONARY TANKS



DRUM
STOR-
AGE

15 kgol TANK

PUMP



20-6 e

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.: # 2004G Date: 12/18/80 Time: 11:00

Facility Type: Transfer, storage, reprocessor, reclamation,
recovery, blending, treatment.

Street: 217 S. First St. Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5000

County: Union Person Contacted: Ray Rothschild
Position: President

Inspector: Downey/Dante

Weather Conditions: Clear ☐ Rain ☐ Snow ☐ Overcast ☒

Wind Direction: SW Temp: 40 Speed: 10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

less than
Total No. 4000 Size 55 gal. Type metal
Supplied by Keith White

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more See comment #2.

Palletized: ☐ Yes ☒ No on concrete pad

Observations and/or Other Comments

did not pertain to them because of the wording "proposed facility". I explained to them that this meant existing facility. Mr. Cohen said he would take care of these items as soon as possible.

Inspector's Signature

Thomas H. Brown

- Facility Operator's Signature

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.:# 20045 Date: 9/29/80 Time: 11:00

Facility Type: Transfer/storage/reprocessor

Street: 217 So. First St. Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5800

County: Union Person Contacted: Roy Rothschild
Position: President

Inspector: Downey/Dante

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: NW Temp: 58 Speed 5-10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____ gates locked at night

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: _____ usual processing odors

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: _____ see comments 3&4

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 4,000 Size 55 Type steel
according to Mr. Rothchild

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No on concrete pad

A-2

said these drums will be taken care of.

5. Leaker recorded in last inspection report has not been cleaned. Mr. Rothschild told a worker to attend to the drum.

6. Work still in progress on floodwall.

Observations and/or Other Comments

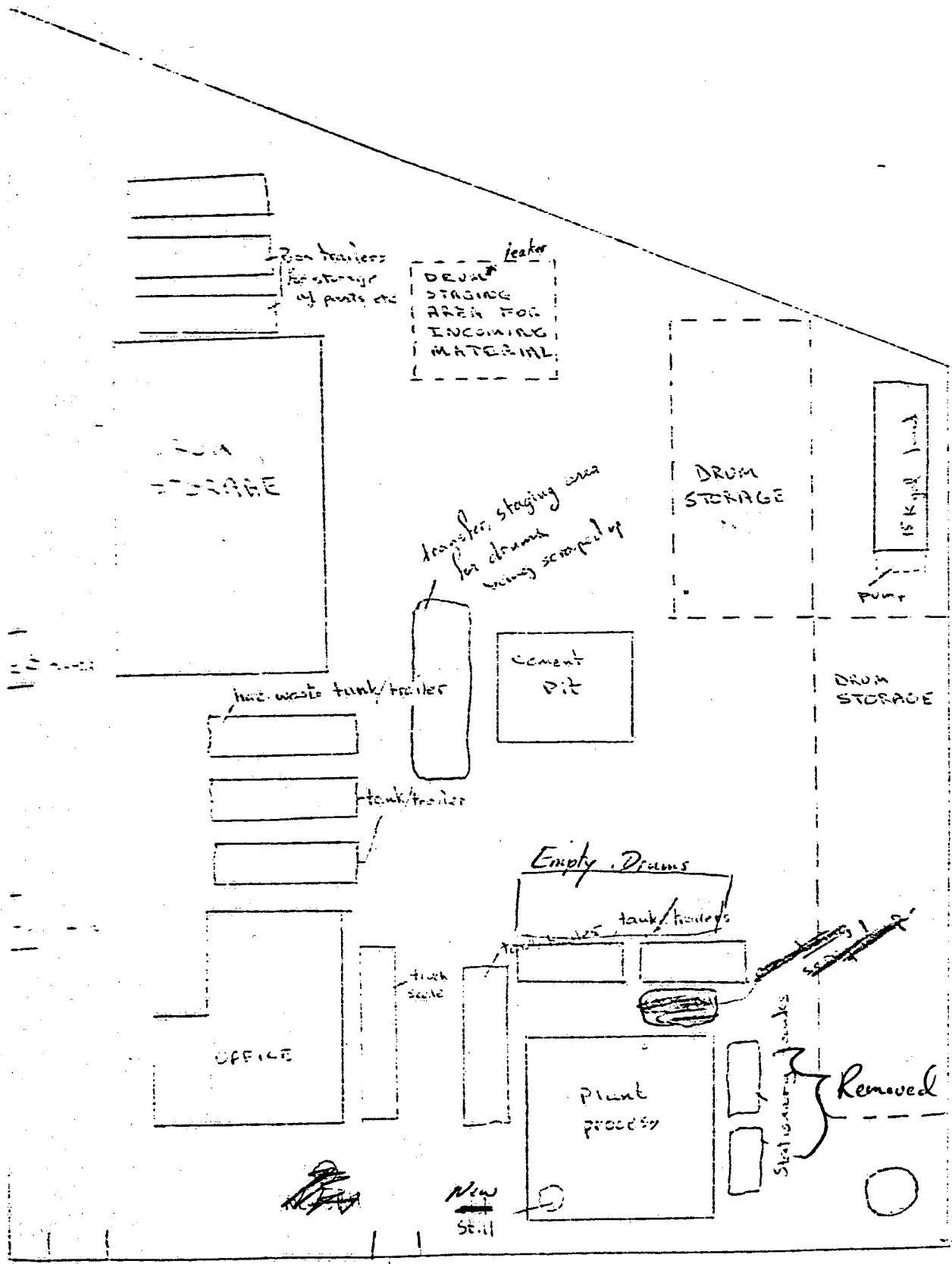
top for access for sampling in accordance with item #28 of TOA. 7. Most of secondary fence has been removed. Only a small section behind office remains. The storm water trenches have been concreted and appear to be complete. Flood gates have been installed and appear to be operational. Mr. Rothschild was not sure where storm water runoff went to. He did show me the engineering DPCC plans for a 4 inch curb between the storm trench and the facility.

8. Mr. Rothschild stated that he does not store any waste in storage tanks, thus item # 26 of the TOA does not apply to him. However item #27 of the TOA does apply - Tank Integrity. Mr. Rothschild stated he would take care of this, he informed his engineer of this while I was there. 9. I discussed with Mr. Rothschild the stacking of drums 4 high. He informed me that his attorney has written to Dr. Pasceri concerning this matter. He gave me a copy of a letter dated 9/24/80. He is now waiting for a reply from our office concerning this. 10. The leaking drum found during last weeks inspection has been repacked.

Inspector's Signature



Facility Operator's Signature



entrance

entrance

all tanks are empty

PERK CHEMICAL NOT TO SCALE
 10/1/10

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical

I.D.: #20046

Date: 10-15-80 Time: 11:00

Facility Type: Transfer, Storage, Reprocer, Reclamation, Recovery, Blending Treatment

Street: 217 S, First Street

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5000

County: Union

Person Contacted: Kieth White
Position: Plant Manager

Inspector: Dante/Downey

Weather Conditions: Clear ☐ Rain ☒ Snow ☐

Wind Direction: Temp: 60 Speed 5-10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: odors due to processing

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: undetermined according to Mr. White (see comment #5)

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

less than
Total No. 4,500 Size 55 gal. Type metal
according to Mr. White

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No concrete pad

A-2

6. One drum $\frac{1}{2}$ full with liquid waste with no lid on it, informed Mr. White to put the lid on it.
7. 66 drums of waste are blocking entrance to Perk Chemical the drums were placed there to take the place of the gate that was broken down on 10-10-80 (refer to comment 1). We informed Mr. White that the drums should be removed. Mr. White said the drums will be removed today because the person is coming to repair the gate. Mr. Cohen, treasurer of Perk, said the person who was supposed to call him and give him a price to fix the gate never called. Mr. Cohen said if he doesn't show he will try to get another person as soon as possible

A handwritten signature in cursive script, appearing to read "Robert White". The signature is written in dark ink on a light background.

50-6

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.# 2004B Date: 10/21/80 Time: 12:00

Facility Type: Transfer, storage, reprocessor, reclamation
Recovery, blending, treatment

Street: 217 S. First Street Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5000

County: Union Person Contacted: Keith White
Position: Yard Foreman

Inspector: Downey/Dante

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: W Temp: 53 Speed 15 MPH

Security Measures: Fence ☐ Yes ☒ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Slight solvent odors

Leaks, Spills: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Less than
Total No. 4100 Size 55 gal. Type metal
supplied by Keith White

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

A-2

Observations and/or Other Comments

and Fence Co. in Elizabeth. Mr. Cohen requested we not contact him for fear that the contractor might pull off the job completely.

According to Keith White the drums blocking the entrance contain Methylene Chloride sludge. Bob Dante verified that the drums were full and contained a sludge material.

Inspector's Signature

Thomas W. Perry

- Facility Operator's Signature

206

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical

I.D. #: 2004C

Date: 6/20/80 Time: 1:00

Facility Type: Transfer, Storage, Reprocess, Reclamation, Recovery
Blending, Treatment

Street: S. First Ave.

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5000

County: Union

Person Contacted: Ray Rothschild
Position: President

Inspector: M. Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: NE Temp: 70. Speed 10-15 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☐ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Drum storage, processing

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☒ Yes ☐ No see comments

Source: Drum storage, drum tipped over by mistake while transporting

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage:

Total No. 4500 Size 55 gal Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

A-2

Categorized: ☒ Yes ☐ No Labeled: ☒ Yes ☐ No

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers 1

General Condition: ☐ Poor ☐ Fair ☒ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check: C28476, 38953, 49962, 49961

Properly completed ☒ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments Drum tipped over while being transported on fork lift. Saw dust immediately applied to spill. Work continuing on flood control wall. Drum staging area to be moved from rear to front area by office. While constructing flood control wall a sanitary sewer line leading from the facility was broken.

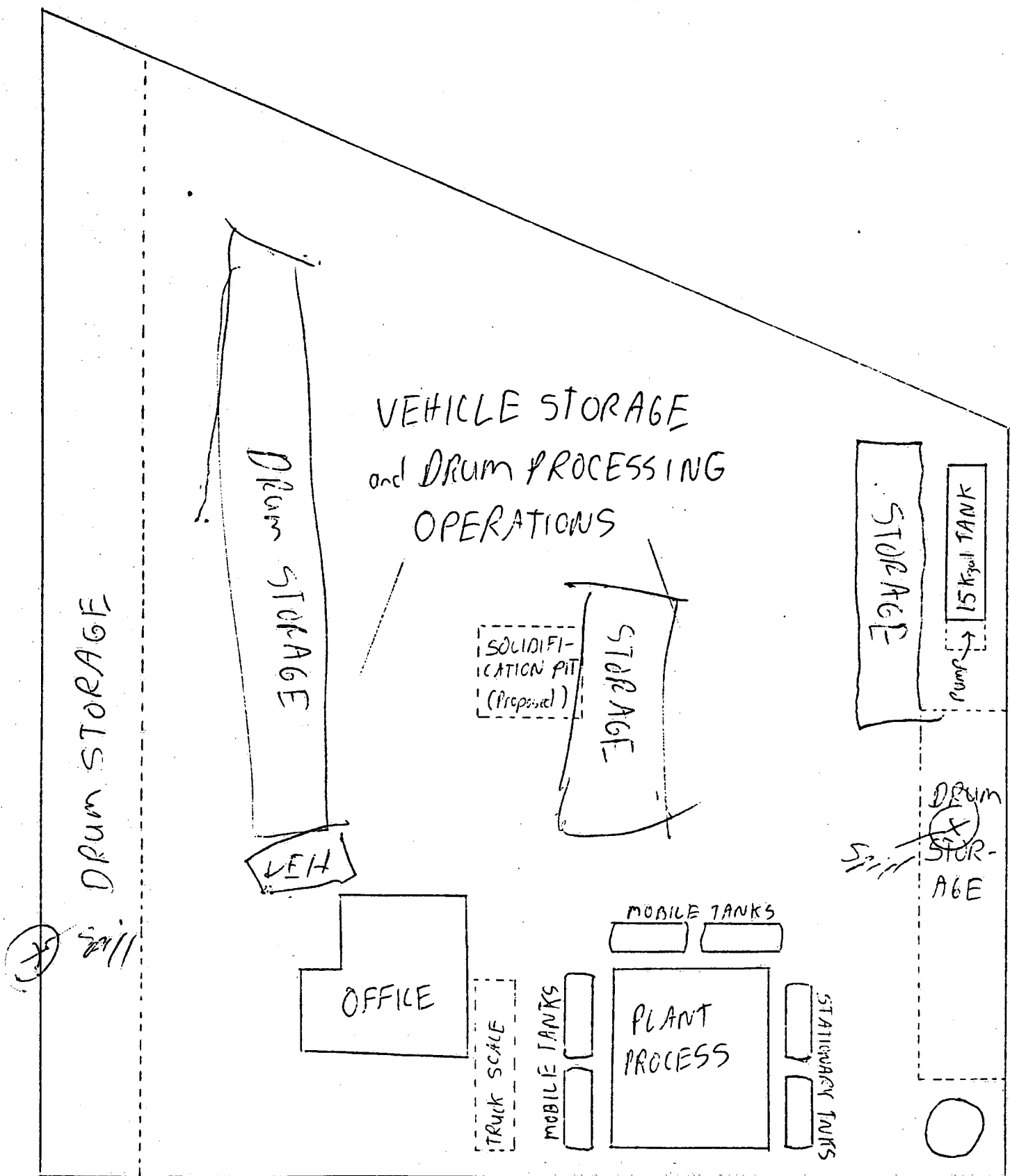
Any flow going into sanitary sewer from facility now discharges into drainage channel adjacent to flood control wall.

Spills approx. 5ft² brown liquid marked by ⊗ in drum storage area.

Mr. Rothschild inquired about when new T.O.A.'s are coming out. I explained that I did'nt know.

Inspector's Signature

Facility Operator's Signature



20-6
BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical Co. I.D.# 20045 Date: 8/21/80 Time: 1:30

Facility Type: Transfer/Storage/Reprocessor

Street: 217 So. First St.

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5800

County: Union

Person Contacted: Mr. Rothchild
Position: President

Inspector: Thomas Downey

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: NE Temp: 80 Speed 10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other Gates are locked at night.

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☐ Yes ☒ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source:

Leaks Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: 2 drums

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

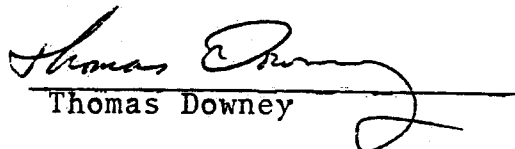
Drum Storage:

Total No. 4500 Size 55 gallon Type Metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

5. Two small spills (2' x 4') (2' x 3') noted in front of process plant; recommended cleaning of spills and scraping area from process building to mobil tanks. Spill seemed to consist of water with an oily sheen.
6. Most drums are stored on a concrete pad. Only noticed a few drums stored on earth. Recommended they be moved on to concrete pad.
7. Two leakers found, according to Mr. Rothchild. They will be repacked in new drums.
8. Mr. Rothchild states that any waste water generated from drum cleaning is mixed with saw dust and drummed off and shipped to Alabama.
9. A fire inspection is to be held on August 26, 1980.
10. Drums are stacked 4 high according to present TOA they should only be stacked 3 high. Mr. Rothchild stated that Ron Corcory is aware of this and a decision will be made soon as to what height drums may be stacked.


Thomas Downey

hjc

e

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical Co. I.D.:# 2004 Date: 9/5/80 Time: 1:00

Facility Type: Transfer/storage/reprocessor

Street: 217 S. First St. Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5800

County: Union Person Contacted: Mr. Rothschild
Position:

Inspector: T. Downey/D. Potts/C. Elmendorf

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: SE Temp: 80 Speed 10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other Gates locked at night

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Leaking drums, see comment #8.

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 4500 Size 55 gal. Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical

I.D. #: 2004

Date 9/11/80 Time: 10:00

Facility Type: Transfer/storage/reprocessor/reclamation/recovery/blending/treatment

Street: 217 So. First St.

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5800

County: Union

Person Contacted: Ray Rothschild
Position: President

Inspector: T. Downey/ C. Elmendorf

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: W Temp: 80° Speed 5 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other Gates locked at night

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: In process building

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: 1 leaking drum see comment # 11

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 4500 Size 55 gal. Type Metal

Estimate by Mr. Rothschild

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

Perk Chemical
September 11, 1980

6. Two 6,000 gal. tanks next to process building to be moved out when crane comes in next week.
7. Trailer (TA 419E NJ) from Accurate Forming Hamburg N.J. in yard to be unloaded and reprocessed. C38882
8. Trailer (NJSWA 2841AK) loaded to be shipped to Environmental Waste, Waterbury Conn. on 9/12/80.
9. Part of secondary fence inside of facility has been removed now that permanent fence and wall around perimeter of facility is nearing completion.
10. Employees repacking drums during inspection.
11. Three out of the four leakers found during last inspection have been repacked . The fourth could not be located. I located it during this inspection. Mr. Rothschild stated that this leaker would be taken care of shortly.
12. Drums remain stacked four high due to space shortage caused by construction. According to Mr. Rothschild, Ron Corcory is aware of this situation.

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

20-6

Facility Name: Perk Chemical

I.D.: #

Date: 9-17-80 Time: 2:00

Facility Type: Transfer, Storage, Reprocess, Reclamation, Recovery, Blending Treatment

Street: S. First Ave

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5000

County: Union

Person Contacted: Ray Rothschild
Position: President

Inspector: C. Elmendorf

Weather Conditions: Clear ☐ Rain ☐ Snow ☐ x overcast

Wind Direction: to W Temp: 72 Speed 10-15 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source:

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Small (3'dia.) oil spill from truck will be cleaned up.

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 4158

Size 55 gal.

Type Steel

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.:# 20045 Date: 9/24/80 Time: 1:00

Facility Type: Transfer/storage/reprocessor

Street: 217 So. First St. Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5800

County: Union Person Contacted: Ray Rothschild
Position: President

Inspector: Downey/Dante

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: NW Temp: 75 Speed 10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other Gates locked at night

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: see comment #4

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 4500 Size 55 gal Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

I spoke with Mr. Rothschild concerning the list of qualifications of employees which according to his TQA was to be submitted to the office. He showed me proof that the list had been sent on 9/9/80. He also gave me a copy of qualification and proof of mailing which I will submit.

I also spoke with Mr. Rothschild concerning submittal of a bond. He showed me a letter from his attorney indicating that our office is presently reviewing his volume of business and will soon determine the amount of his bond.

20-06

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical

I.D. # 2004G

Date: 1-30-80 Time: 10:45

Facility Type: Transfer/Storage/Reproc./
Recovery./Blending/Treatment

Street: So. First Ave.

Lot: 865

Block: 2

Town: Elizabeth

Phone:

County: Union

Person Contacted: Ray Rothschild
Position: President

Inspector: Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: E Temp: 20° Speed 3 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: PROCESSING

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: MINIMAL LEAKAGE FROM DRUM STORAGE ABSORBENT PLACED AROUND SPILLAGE

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 4000* Size 55 gal. Type metal

estimate supplied by Perk.

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☒ 3 Drums ☐ 4 or more

Palletized: ☐ Yes ☒ No

REVIEWED 3-22-80 *gl*

Categorized: ☒ Yes

Labeled: ☒ Yes

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers minimal around tops

General Condition: ☐ Poor ☐ Fair ☒ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments _____

Manifests display still bottoms to SCP. Check on status of SCP.

Inspector's Signature

Facility Operator's Signature

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.:# 2004C Date: 2/22/80 Time: 1:00

Facility Type: Trans./Stor./Reproc./Prclam./Recov./Blending/Treatment.

Street: 217 S. 1st St. Lot: Block:

Town: Elizabeth Phone:

County: Union Person Contacted: Ray Rothschild
Position: Pres.

Inspector: Kramer/McGuinness

Weather Conditions: Clear ☐ Rain ☒ Snow ☐

Wind Direction: E Temp: 30 Speed 5 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☐ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Processing

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Water Soluble Oil

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage:

Total No. 4500 Size 55 Gal Type Metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

Inspected: ☒ Yes ☐ No

Labeled: ☒ Yes ☐ No

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☐ Yes ☒ No Number of Leakers _____

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments 1. Heavy water accumulations due to rainfall.

2. Some water soluble oil mixed with rain water.

3. Cleaning of old drums proceeding.

4. Will have to reorganize the yard (South end of facility) due to core
of engineers plans for easement construction.

Inspector's Signature

Tom M. Guinness

Facility Operator's Signature

A-2

20-06

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.# 2004G Date: 3/13/80 Time: 9:00

Facility Type: Transfer/Storage/Processor

Street: First Street Lot: Block:
Town: Elizabeth Phone:
County: Union Person Contacted: Ray Rothchild
Position: President
Inspector:

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: E Temp: 30 Speed: 1 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Processing

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: _____

Overall Housekeeping: Poor ☐ Fair ☐ Good ☐ Excellent ☐ ?

Drum Storage:

Total No. 4500 Size 55 Gal Type Metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

Categorized: ☒ Yes ☐ No

Labeled: ☒ Yes ☐ No

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers _____

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☒ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☒ Yes ☐ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments 1. some drums leaking slightly due to freezing.

2. During time of inspection, worker being treated for exposure to chlorinated hydrocarbons. He was receiving treatment from the Elizabeth Emergency Squad.

Inspector's Signature

Tim McQuinn

Facility Operator's Signature

CLM
Mr. Charles Mack, Principal Environmental Engineer

Mr. Charles Johnson, Environmental Engineer Trainee

April 9, 1980

Park Chemical Company, Elizabeth, Union County
SWA Authorized Chemical Waste Processing Facility # 2804C

On April 7, 1980, the writer and Mr. Paul Harvey inspected Park Chemical Company, Elizabeth.

The inspectors observed the process area where the company uses a distillation process to separate chemicals. Non-contact cooling water is used in the process and is discharged into the City of Elizabeth sanitary sewer system. Finished and waste products are pumped into drums or tank cars.

The remaining area of the plant is used for chemical storage in drums and tanks. Drums are placed on concrete pads, but these pads are not diked (bermed) to prevent discharges. Park has proposed to install new dikes and Park representatives stated that concrete pads will be installed in the near future.

The Army Corps of Engineers is preparing to install a levee on an easement on Park Chemical's property to protect the area from flooding in the event of a high intensity storm. This construction should be completed by early summer, 1980, and Park will then install its proposed dikes and pads.

Although some spillages were observed, these were on existing pads. Surface water can presently flow off the site and into storm drains, but when the levee and dike systems are installed, this problem should be abated.

Therefore, it is recommended that Park Chemical Company be required to install the new dikes and concrete pads it has proposed for spillage containment.

E54:G1

cc: Mr. Monachefsky
Mr. Post

OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

20-6

Facility Name: Perk Chemical I.D.# 2004C Date: 4/21/80 Time: 10:00
Facility Type: Trns./Stor./Reproc./Recov./Bldg./Trtment.
Street: S. First St. Lot: 865 Block: 2
Town: Elizabeth Phone: 201 355-5800
County: Union Person Contacted: N. Cohen/R. Rothschild
Inspector: Kramer Position: Pres.

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: E Temp: 65 Speed 5 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other temporary fence set up in excavation area

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☒ Yes ☐ No

Source: drum storage, army corp. excavation around perimeter (S)

Leaks, Spills: On Site ☐ Yes ☒ No Off Site ☒ Yes ☐ No

Source: groundwater leaching into excavation pit

Overall Housekeeping: Poor ☒ Fair ☐ Good ☐ Excellent ☐

Drum Storage:

Total No. 4000* Size 55 gal Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☒ 3 Drums ☐ 4 or more

Palletized: ☐ Yes ☒ No estimate

A-2

Categorized: ☒ Yes ☐ No

Labeled: ☒ Yes ☐ No

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers 1 (bungs)

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☐ no Number _____

Photos: ☐ Yes ☐ No No. _____ Location: _____

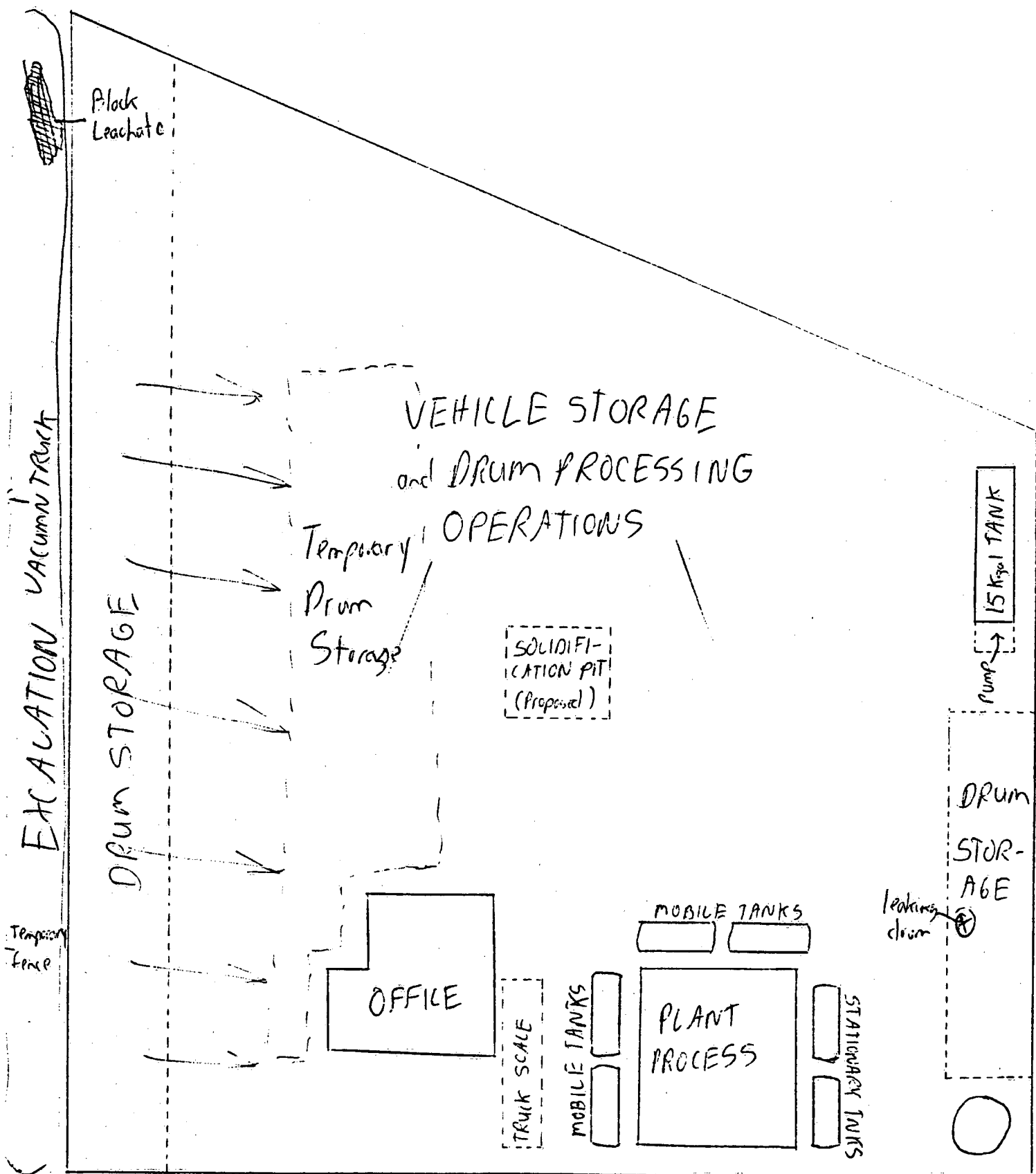
1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments Excavation performed on south end of facility (perimeter).

Multi-colored leachate present in excavation. Leachate emitting odor. Red, green, and
black pockets observed. Starting excavation on west end of perimeter. Vacuum track
observed vacuuming up contaminated water from pit. Yard reorganized because of
project. Drums moved to center of yard.

Inspector's Signature _____

Facility Operator's Signature _____



20-6

OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk. Chemical I.D.:# 2004C Date: 4/28/80 Time: 1:00

Facility Type: Trns. /Stor./Reproc./Recov./Bldg./Trtmt.

Street: S. First St. Lot: 865 Block: 2

Town: Elizabeth Phone: 201 355-5800

County: Union Person Contacted: Norman Cohen
Position: Treasurer

Inspector: Kramer

Weather Conditions: Clear ☐ Rain ☒ Snow ☐

Wind Direction: Sw Temp: 50 Speed 1 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other temporary fence erected for Corp. project

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☒ Yes ☐ No

Source: drum storage/ambient

Leaks, Spills: On Site ☐ Yes ☐ No Off Site ☐ Yes ☐ No

Source: could not ascertain due to heavy rainfall

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage:

Total No. 4500 Size 55 gal Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

Categorized: ☒ Yes ☐ No

Labeled: ☒ Yes ☐ No

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☐ Yes ☒ No Number of Leakers _____

General Condition: ☐ Poor ☐ Fair ☒ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain: see comments

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments Excavation present at perimeter of facility. Army Corp

starting to lay concrete pad in excavation. Could not observe leachate due to

heavy rainfall. Surface water collection noted throughout facility. Manifests

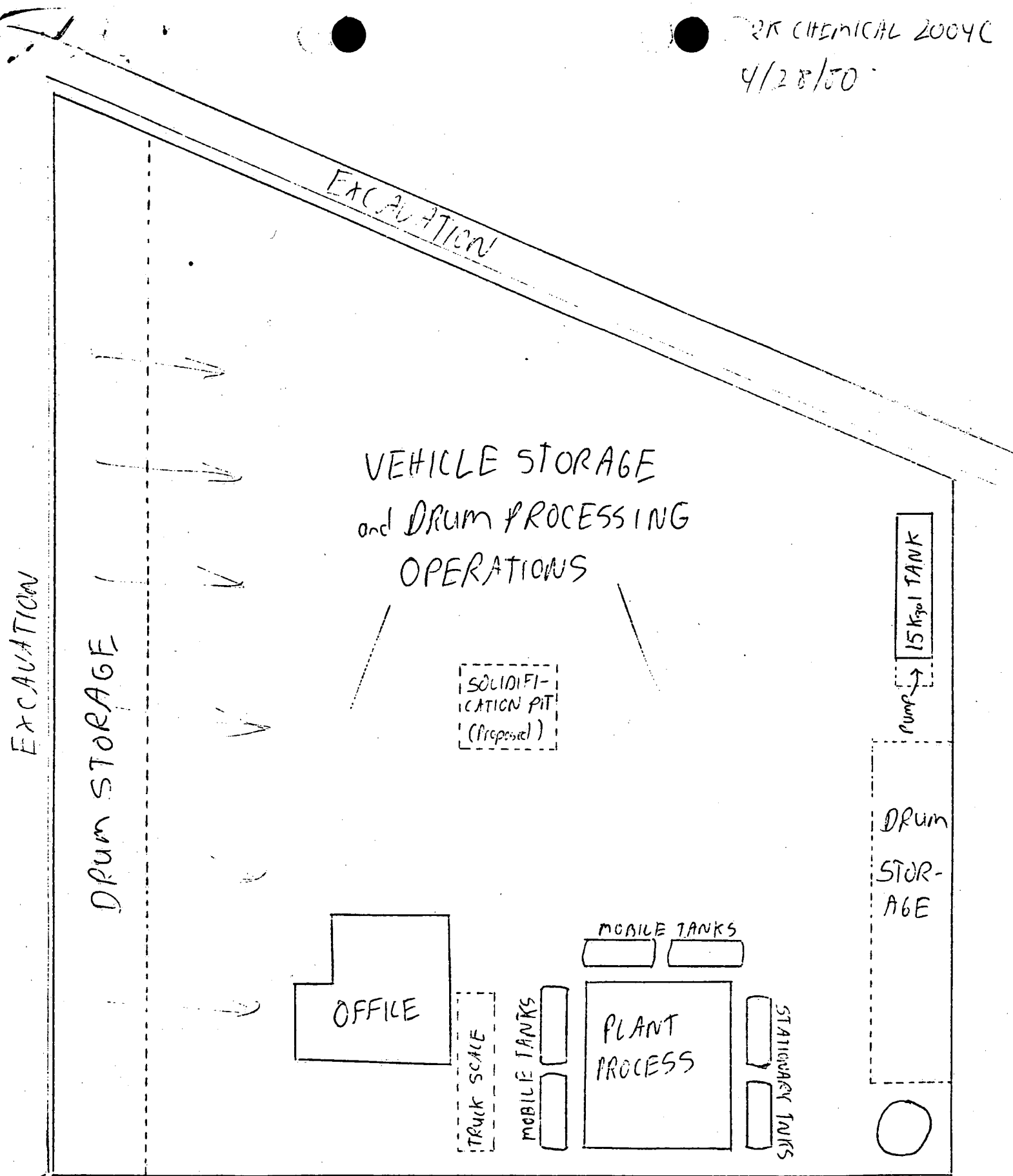
A-32138-Acid to kit rejected. Are currently shipping acid to Environmental Waste
C-49933, C-36516, A-32183 Watery Connecticut

Inspector's Signature _____

Facility Operator's Signature _____

A-2

4/28/00



20-06

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.# 2004C Date: 5/5/80 Time: 10:00

Facility Type: Trns. Stor, Reproc. Recov, Bldg, Trtmt.

Street: S. First St. Lot: 865 Block: 2

Town: Elizabeth Phone: 355-5000

County: Union Person Contacted: Ray Rothschild

Inspector: Kramer Position: President

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: E Temp: 75 Speed 1-2 MPH

Security Measures: Fence ☒ Yes ☐ No temporary while flood project going on

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: drum storage

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: drum storage (1 leaker)

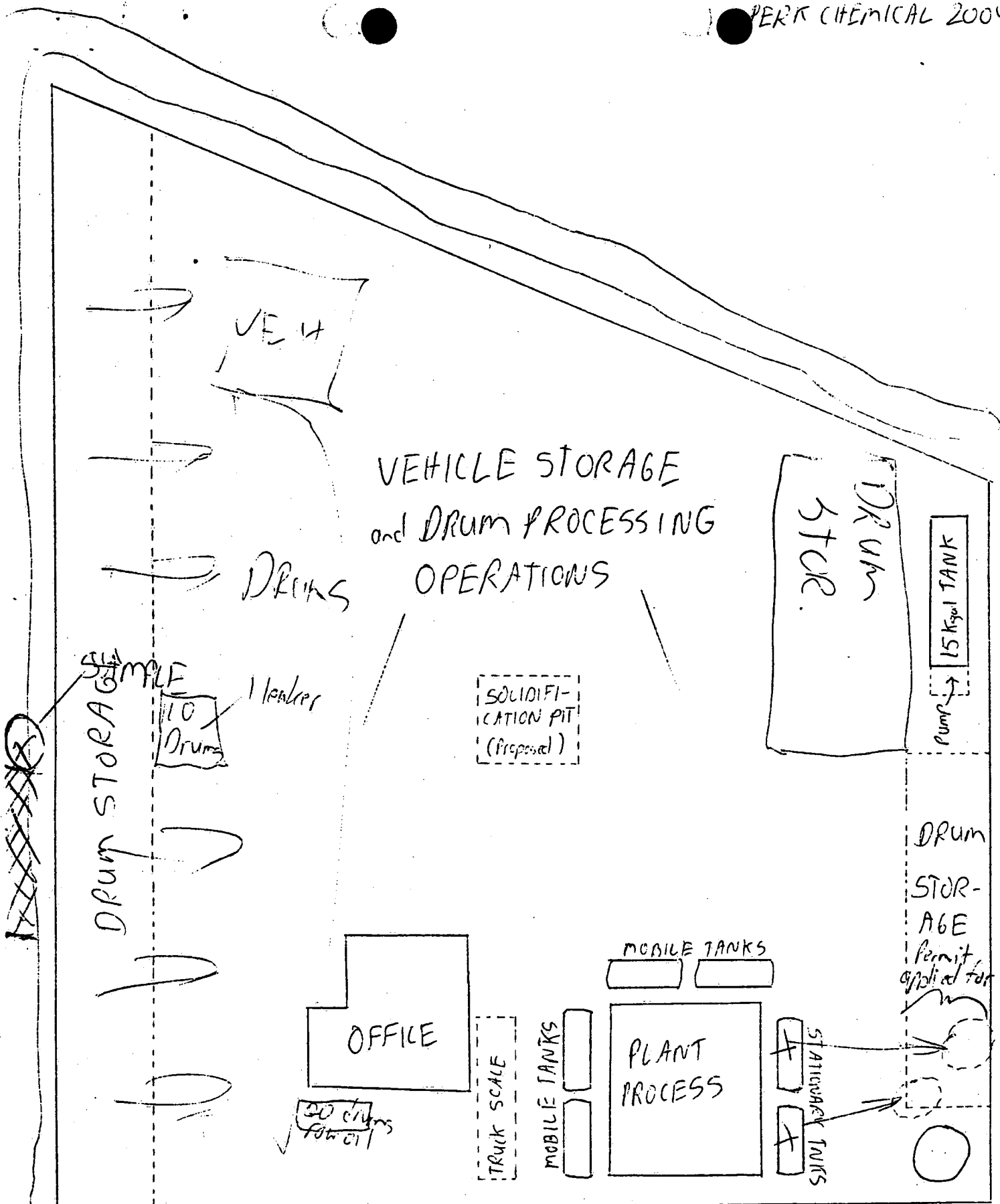
Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage:

Total No. 4507 Size 55 gl. Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No



20-06

BUREAU OF HAZARDOUS WASTE
FACILITY INSPECTION FORM

Facility Name: Perk Chemical I.D.: #20046 Date: 5/21/80 Time: 1:00

Facility Type: Trng./Stor./Reproc./Recl./Recov./Blnd./Trtmt.

Street: S. First Ave.

Lot: 865

Block: 2

Town: Elizabeth

Phone: 355-5000

County: Union

Person Contacted: Ray Rothschild
Position: President

Inspector: Kramer

Weather Conditions: Clear ☐ Rain ☒ Snow ☐

Wind Direction: NE Temp: 60 Speed: 10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: process room

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: drum tipped over by mistake, drum storage (see comments)

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage:

Total No. 4500 Size 55gal Type metal

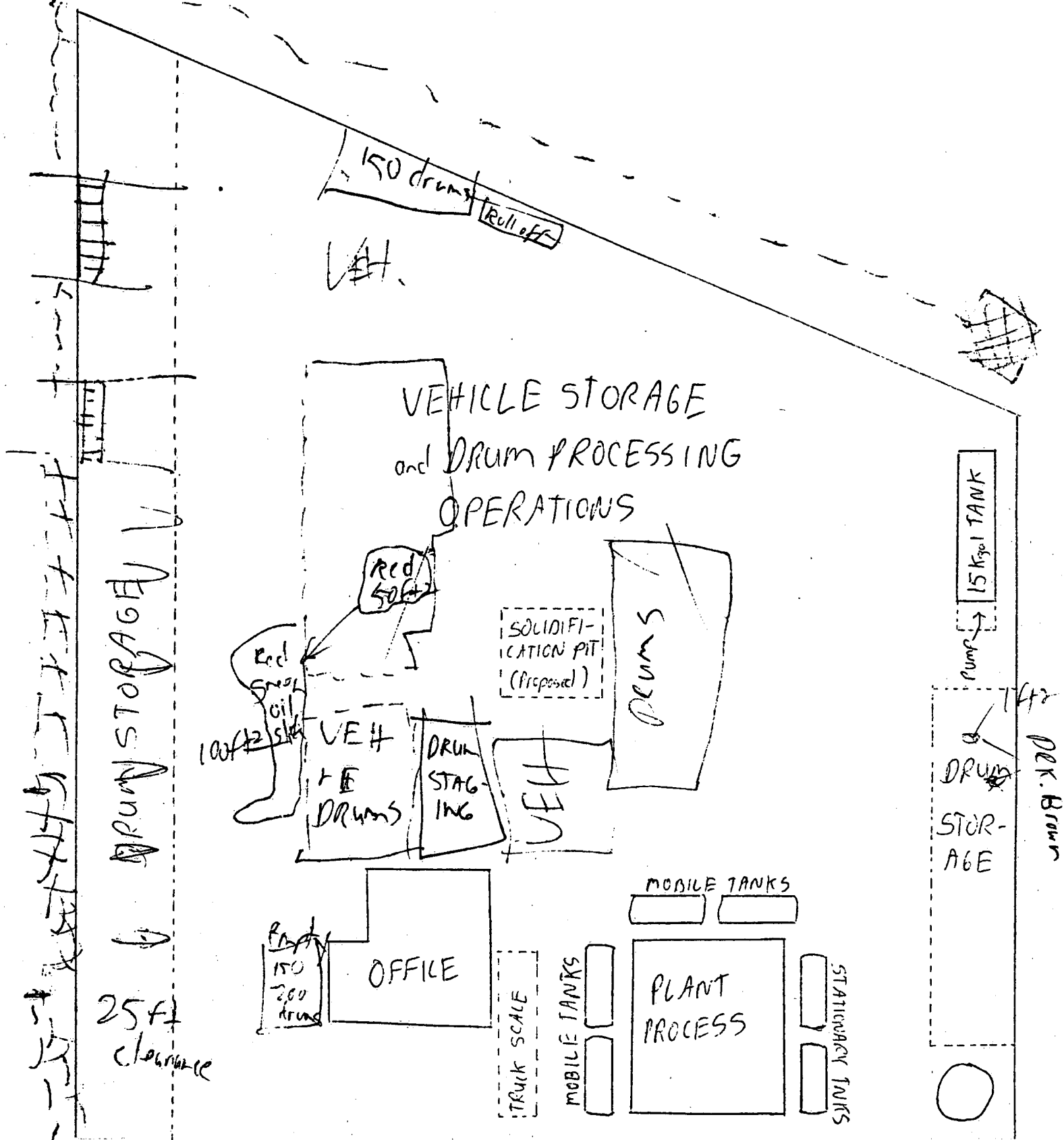
Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

A-2

Surface water accumulation observed throughout facility due to recent heavy rains. Some drums observed standing in water accumulations. 150 drums observed adjacent to W end of facility fence. Yard under reorganization due to flood control project.

(*Outside of facility in flood control excavation.) Regarding the spilled material caused by the drum tipping over, Mr. Rotnschild stated he would attend to it right away. A maintenance worker was observed placing sawdust on the spill.



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR POLLUTION CONTROL

REPORT OF FIELD INVESTIGATION

DATE 12/17/80 TIME 1400 - 1530 FILE #
REFERENCE TO CHAPTER 16.2

ALL BUSINESS NAME PERK CHEMICAL Co. Inc.
Location 217 So First St. ELIZABETH
No. Street Municipality
Mailing Address
No. Street Post Office Zip Code
Person (s) Interviewed RAY ROTHSCHILD PRES
Title

Comments

Report Requested by Michael Papp Supvr. Title
Purpose of Investigation Order Compliance

Observations The three tankwagons referred to in the order have been emptied of perchloroethylene:

#1 (South side of plant bldg) has been moved to the rear of the property and is empty.

#2 (west side of plant bldg, more southerly of two) has three compartments, two of which are empty, the third of which contains 600 gal of methylene chloride. Mr Rothschild stated this has been there

conclusions less than a week and is scheduled to be emptied tomorrow (Dec. 18.)

#3 (west side of plant bldg, more northerly of two) has three compartments, two of which are empty, the third of which contains 600 gal of kerosene.

Recommendations Company in compliance with order.

Check tankwagon #2 about 1/17/80 to see if it still contains methylene chloride.
Investigated by [Signature] Signed
Title Env. Specialist

TO . Ron Corcory

20-6

FROM Phil Cole through Furman Stoop

DATE September 8, 1980

SUBJECT Inspection of Perk Chemical

Purpose:

Perk Chemical 217 South First Street, Elizabeth, was inspected on Thursday, August 21, 1980 by Frank Gagliano and myself. Also in attendance were Kevin Gashlin, Tom Downey and Chuck Elmendorf of Bureau of Hazardous Waste. The joint inspection was intended to aid both agencies. The facility was inspected relative to spill prevention regulation and hazardous waste regulations.

Persons Contacted:

Ray Rothchild - Owner/Manager
Kevin White - Foreman

Discussion:

Prior to the inspection we met with Mr. Rothchild and explained our purpose, (inspection relative to spill prevention regulation and hazardous waste regulations). He agreed to show us around the facility with Mr. White present to aid in answering questions.

Background:

Perk Chemical Co. is 2-3 acre site. They handle solvents, mostly for cleaning and resale. Most business is done in reclamation and some in waste disposal, (waste disposal reportedly constructed to Solvent Recovery Services).

A large volume of material is in drums. These are generally empty except for residuals. The tops are cut off and material removed (process area). Material is distilled for cleaning. Finished product may be returned in same drums.

There exists one 12,000 gallon above ground tank five tank-truck trailers as storage of liquids and eight enclosed box trailers as storage of drums.

Site Inspection:

The process area is a two door garage building. The floors are oil stained. Sorbents (possibly saw dust) were being used as cleanup procedure.

The drum storage area is almost entirely concrete. There are some bare ground areas. The drum storage area on the south and west sides by Third Avenue was heavily stained. The drum storage area on the north and east side showed fewer stains.

All drums to be processed are vertically stored in rows of two drums wide and five drums high. Length of rows varied.

All empty drums were without lids (cut off). These empty drums were stored horizontally and may be source of discharge.

I asked Mr. Rothchild about daily inspections of the drums, he replied that either he or Mr. White inspect daily in the morning.

A drum was found to be leaking. Mr. Gashlin informed Mr. Rothchild that the contents will have to be transferred into suitable container before our departure.

There is a concrete pad in the center of the facility. It contains about 500 gallons of rain water that is run off from the general area. Although the water may be contaminated it does not pose an immediate threat to groundwater.

Recommendations:

The sections of the facility that have exposed ground should be protected from run off by curbing or paving.

Tank truck trailers used as primary storage should have secondary containment. This secondary containment should be impermeable and capable of holding the entire contents of any single compartment.

There is a column tank on the facility's north east corner (near the processing area). This tank is presently without secondary containment. Secondary containment should be provided. It should be impermeable and capable of holding the entire contents of the tank plus freeboard for accumulated precipitation.

HAZARDOUS WASTE FACILITY
INSPECTION FORM

3-12/79
Facility Name: Perk Chemical

I.D. # 2004C

Date: 9/25/79 Time: 1:00

Facility Type: Transfer/Storage/Reprocessing/Reclamation/Blending/Treatment

Street: 217 South First

Lot:

Block:

Town: Elizabeth

Phone:

County: Union

Person Contacted: Ray Rothschild

Position: President

Inspector: Mike Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: East Temp: 70° Speed 2 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☐ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☐ No

Source: _____

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

* Source: One drum spilled, absorbent placed on ground. Others have leaks.

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage:

Total No. 6,000

Size 55 gallon Type Metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

Categorized: ☒ Yes ☐ No

Labeled: ☒ Yes ☐ No

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers 4

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☐ Yes ☒ No

Explain: See comments

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☒ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments Standing H₂O noted in process area and yard. Some drums noted in standing H₂O. Concrete pad almost near completion. Yard is reorganized

for concrete pad placement. Some material leaking from tops of drums. Manifest A107253

CR.(Diox. fur.) 378 gallons. Explained to be wrong. Bill of Lading shows tri and perchloroethylene.

Inspector's Signature

Facility Operator's Signature

HAZARDOUS WASTE FACILITY
INSPECTION FORM

20-06

Facility Name: Perk Chemical I.D. # 2004C Date: 10/30/79 Time:

Facility Type: Transfer, Storage, Reprocesser, Blending, Treatment

Street: 217 S. First St.

Lot:

Block:

Town: Elizabeth

Phone:

County: Union

Person Contacted:
Position:

Inspector: Mike Nalbene

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: N Temp: 50° Speed 1-3 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☐ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☐ Yes ☒ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Ambient

Leaks, Spills: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage: Reorganization of drums because of construction on site.

Total No. _____ Size _____ Type _____

Count of drums will be made next inspection.

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

Categorized: ☒ Yes ☐ No Labeled: ☒ Yes ☐ No

Manifested: ☐ Yes ☐ No Numbers on some.

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers 2

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☒ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments Still constructing concrete floor. Scrap drums
being hauled off site during our inspection. Still constructing solidification basin.
Noted 15,000 gallon horizontal tank on site pitching toward the West of site. Probably
caused by crack in concrete foundation under tank. Also noted some drums stored on
site in standing water.

Inspector's Signature

Mike Halbon

Facility Operator's Signature

HAZARDOUS WASTE FACILITY
INSPECTION FORM

20-06

Facility Name: Perk Chemical

I.D. #2004C

Date: 10-16-79 Time: 1:00

Facility Type: Tras./Stor./Repr./Recl./Blending/Trtmt.

Street: 217 S. First St.

Lot: 865

Block: 2

Town: Elizabeth

Phone:

County: Union

Person Contacted: Ray Rotlschild

Position: President

Inspector: Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: NW Temp: 60° Speed 1 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☐ No

Other

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☐ No

Source:

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Spilled drum (wax) drum storage (minor)

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage: will count next wk.

Total No. Size 55 gl Type metal

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

Labeled: ☒ Yes ☐ No

Condition:

Number of Leakers	1
-------------------	---

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

• Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☒ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments

Horizontal tank installed with pitch to facilitate drainage. Still laying concrete pad. Starting to arrange drums by category is saleable, special recyclable with 2 ft. empty row separation.

Inspector's Signature

Facility Operator's Signature

Categorized: ☒ Yes ☐ No Labeled: ☒ Yes ☐ No

Manifested: ☐ Yes ☐ No 1 recent shipment pointed out by Mr. Rothschild does not display manifest number. approximately 80 drums.

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers see comments

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain: outgoing

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments Final drum reorganization awaiting concrete pad placement. Will be completed in approximately 2 weeks. 25 decayed drums set aside and processed. Drums noted in standing water in one section of yard. Advised to lay pallets on bottom when drum reorganization takes place.

Inspector's Signature

Facility Operator's Signature

20-06

HAZARDOUS WASTE FACILITY
INSPECTION FORM

Facility Name: Perk Chemical

I.D. #2004G

Date: 11-27-79 Time: 2:00

Facility Type: Transfer, Storage, Reproc. Recl. Blending, Treatment

Street: 217 S. First St.

Lot: 865

Block: 2

Town: Elizabeth

Phone:

County: Union

Person Contacted: Roy Rothschild
Position: President

Inspector: Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: N Temp: 60° Speed 5-10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: Heavy material by standing water in drum storage area.

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage: SEE LAST REPORT

Total No. _____ Size _____ Type _____

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☐ 4 or more

Palletized: ☐ Yes ☐ No

20-06

HAZARDOUS WASTE FACILITY
INSPECTION FORM

Facility Name: Perk Chemical I.D. # 2004G Date: 11-20-79 Time: 11:00

Facility Type: Transfer, Storage, Reprocesser, Reclamation,
Recovery, Blending, Treatment

Street: 217 So. First St. Lot: 865 Block: 2

Town: Elizabeth Phone:

County: Union Person Contacted: R. Rothschild
Position: President

Inspector: Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: Temp: 60° Speed _____ MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☐ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: PROCESS STILL

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☐ No

Source: DRUMS

Overall Housekeeping: Poor ☐ Fair ☐ Good ☒ Excellent ☐

Drum Storage: SEE LAST WEEKS REPORT

Total No. _____ Size _____ Type _____

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

A-2

Categorized: ☒ Yes ☐ No

Labeled: ☒ Yes ☐ No

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers 1

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number

Photos: ☐ Yes ☒ No No. Location:

1.
2.
3.
4.
5.

Observations and/or Other Comments Drum reorganizing still taking place. Surface water
accumulation noted in one area of yard except to have drums reorganized on south end of
facility by next week.

Inspector's Signature

Facility Operator's Signature

HAZARDOUS WASTE FACILITY
INSPECTION FORM

Facility Name: Perk Chemical

I.D. # 2004C

Date: 12-5-79 Time: 11:00

Facility Type: Trans./Stor./Reproc./Reclaim/Rec./Blding/.Treat

Street: First Ave.

Lot:

Block:

Town: Elizabeth

Phone:

County: Union

Person Contacted: R. Rothschild

Position: President

Inspector: Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: NW Temp: 50° Speed 1 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☐ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☒ Yes ☐ No Off Site ☐ Yes ☐ No

Source: drum storage

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: decayed drums set aside for processing. Absorbant placed on spill

Overall Housekeeping: Poor ☐ Fair ☒ Good ☐ Excellent ☐

Drum Storage: will take count next week

Total No. _____ Size _____ Type _____

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

Categorized: ☐ Yes ☒ No

Labeled: ☐ Yes ☒ No

Manifested: ☐ Yes ☐ No

Condition:

Leaking: ☐ Yes ☐ No Number of Leakers Possible leaker (1)

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☐ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☐ yes ☒ no Number _____

Photos: ☐ Yes ☒ No No. _____ Location: _____

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments

Spilled material noted on standing water in drum storage area. Is being cleaned up
immediately. Drums being reorganized-approximately 50% complete.

Inspector's Signature

Facility Operator's Signature

20-04

HAZARDOUS WASTE FACILITY
INSPECTION FORM

Facility Name: Perk Chemical

I.D. #2004G

Date: 12-26-79 Time: 10:00

Facility Type: Trans, Stor, Reproc., Recl,
Recov, Blnd, Trtmt.

Street: S. First Ave.

Lot: 865

Block: 2

Town: Elizabeth

Phone:

County: Union

Person Contacted: Ray Rothchild
Position: President

Inspector: Kramer

Weather Conditions: Clear ☒ Rain ☐ Snow ☐

Wind Direction: SE Temp: 45° Speed 5-10 MPH

Security Measures: Fence ☒ Yes ☐ No

Guard ☐ Yes ☒ No

Other _____

Safety Features:

Firefighting ☒ Yes ☐ No

Type:

Extinguisher ☒ Guns ☐ Other ☐

Protective Clothing: ☒ Yes ☐ No
(Issued to Employees)

Written Emergency Procedures Posted ☒ Yes ☐ No

Inspection Observations:

Odors: On Site ☐ Yes ☒ No Off Site ☐ Yes ☒ No

Source: _____

Leaks, Spills: On Site ☒ Yes ☐ No Off Site ☐ Yes ☒ No

Source: empty drums with slight residue turned over/Runoff collection of lowpoint (see comm

Overall Housekeeping: Poor ☒ Fair ☐ Good ☐ Excellent ☐

Drum Storage:

Total No. not counted Size _____ Type _____
this inspection

Stacked Height: ☐ 1 Drum ☐ 2 Drums ☐ 3 Drums ☒ 4 or more

Palletized: ☐ Yes ☒ No

A-2

REVIEWED: 12-20-79

Categorized: ☒ Yes ☐ No

Labeled: ☒ Yes ☐ No

Manifested: ☒ Yes ☐ No

Condition:

Leaking: ☒ Yes ☐ No Number of Leakers 2 detected

General Condition: ☐ Poor ☒ Fair ☐ Good ☐ Excellent

Vehicles: Registered ☒ Yes ☐ No

Numbers Displayed ☒ Yes ☐ No

Manifest Check:

Properly completed ☒ Yes ☐ No

Explain:

Monitoring System: Air ☐ Yes ☒ No

Water ☐ Yes ☒ No

Does T.O.A. reflect capability: (Treatment/Processes) ☐ Yes ☐ No

Explain:

Samples Gathered: ☒ yes ☐ no Number 2

Photos: ☐ Yes ☒ No No. _____ Location: runoff accumulation at South end of facility.

1. _____
2. _____
3. _____
4. _____
5. _____

Observations and/or Other Comments Drum reorganization complete. Bad drums pulled out & segregated. Contaminated absorbant noted on facility grounds. Drums noted in standing water on south side of facility. Standing H₂O appears contaminated-2 samples obtained. Empty drums now stored on side to eliminate residue spillage. Inspection was made within one hour of reopening after 4 days X-mas holiday and after heavy rains-the material described above would have been vacuumed this morning but earliness of inspections did not permit sufficient time to do the vacuum cleanup. RR

Inspector's Signature

Facility Operator's Signature

HAZARDOUS WASTE FACILITY
INSPECTION FORM

Facility Name: Perk Chemical Co. ID# 2004C Date: 2/6/79 Time: 2:30

Street: 217 S. First St. Lot & Block: 865.2

Town: Elizabeth Phone:

County: Union Person Contacted: Norman Cohen

Position: Treasurer

Inspector: M. Kramer

Weather Conditions: Clear

Wind Dir./SP: W-5 mph Temp: 30°

Inspection Observations:

Odors: On Site X Off Site

Leaks, Spills: Yes X No

Source: Odor-around barrels; Spills-from exposed drums containing material

Overall Housekeeping: Poor-dumping tipped over, exposed. Shop covered with waste material

Security Measures: Chain link fence and gates around perimeter of property

Safety Features:

Comments: On February 2 I inspected the premises. Perk Chemical is primarily in the business of solvent reclamation. It is equipped to handle solvent reclamation only. It does however accept other types of waste which is stored haphazardly on the yard. Spills and exposed drums were evident throughout the yard. It is estimated that the yard contains approximately 3,000 drums of waste material. None of the drums display manifest numbers.

The solvent reclamation method consists of distilling contaminated solvents in what appears to be a makeshift still. It was not ascertained what is done with the contaminants. Contaminated solvent is fed into the intake by tipping a barrel over on its side and spilling the contents into a pit.

The yard itself contains approximately 25 trailers and haulers. Mr. Cohen accompanying me during the inspection stated that several trailers weren't even theirs. He did not know who owned them. They displayed Maine license plates. Almost all trailers were locked and Mr. Cohen did not have the keys. An inspection could not be made of their contents. Of the trailers that were open, most contained waste material either in barrels or cartons.

A2

Several spills were noted throughout the yard. A 15,000 gallon undiked tank was stated as containing trichloroethane. Several barrels were observed leaking their contents onto the ground. A roll-off container looked as if it had been used for the deposition of paint sludges.

Numerous haulers were present on the property. Some were used for storage while others were still in service on the road. One hauler was stated as containing fuel for the still boiler.

An inspection of the manifests reveals the facility as accepting acids, ketones, oils and solvents. A large amount of these materials have been accepted within the last 2 months.

Mr. Rothchild, the president was absent during this inspection. It was stated by Mr. Cohen that he knows more about the operations of the facility and could answer more of my questions.

Recommendations

It is my opinion that this facility requires close observation. An immediate follow-up inspection is recommended. In full extent of waste storage on the premises, particularly trailer contents, should be determined.


Michael Kramer

hjc

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Director Tylutki

FROM Ronald J. Buchanan, Ph.D.

DATE 5/7/79

SUBJECT Perk

This date I inspected the Perk site.

1. About 2/3 of the property has been "concreted" and will be bermed to prevent run-off according to Mr. Ray Rothschild, President.
2. Approximately 500 drums containing various solvents and unidentified organic waste are stored on the western edge of the property on bare soil. Some drums are leaking and some spillage is evident on the ground. I told Mr. Rothschild that this area must be cleaned up as soon as possible. He indicated this would take at least 45 days (our order specifies 90 days which is reasonable) and overall 3 months to pave.
3. Orderly, unpallatized stacks of product and waste (4-high) were arranged along the southern fence area. This appears to be an active area as drums were being constantly moved in and out. Mr. Rothschild again argued against pallatizing claiming this will increase the risk of accidents.
4. Stacks of empty drums were evident on the site. Mr. Rothschild explained that these were going to be sent out to a reconditioner and others disposed.
5. A trailer loaded with what appeared to be plastic residues and wastes being readied for disposal. Mr. Rothschild explained that Mr. Rosenberg had given permission to landfill this waste (I will verify this).
6. "Waste" is not segregated from "product". Mr. Rothschild explained that he must accumulate about 2,000 drums of a given waste (i.e. methylene chloride solvent) in order to make it profitable to reprocess. He argued that it is necessary for him to store the 6,200 drums on site. Waste from this operation is sent to Solite, Saugertes, New York, for incineration (cementkiln).

The main areas of concern are the drums and spillage on bare soil and "sloppy housekeeping". Mr. Rothschild explained he is in the process of "cleaning up his act" which appears to be the case from this inspection. He expresses a desire to cooperate with us.

Based on this inspection my feeling is that a Temporary Operating Authorization with cleanup conditions, waste segregation conditions, and a limit of drums on site not to exceed 6,200 (that claimed by Mr. Rothschild to be present) should be considered. I recommend a segregate of "waste" from "product" for ease of inspection.


Ronald J. Buchanan, Ph.D.

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MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO File

FROM Mark Boriek *MB* DATE March 21, 1979

SUBJECT Perk Chemical - On-site visit

On March 16, 1979, David Longstreet and myself conducted an on-site inspection of Perk Chemical Company, Inc., Elizabeth, New Jersey. The facility is involved in chemical waste treatment recovery and transfer. Attendees were:

David Longstreet - N.J.D.E.P.
Mark Boriek - N.J.D.E.P.
Ken Woodruff - Resource Recovery Services, Inc.
Brodie Crawford - Resource Recovery Services, Inc.
Norman Cohen - Perk Chemical Co., Inc.
Ray Rothschild - Perk Chemical Co., Inc.

The facility is deficient in many areas with respect to the DPCC regulations.

Drum Storage Area - Mr. Rothschild estimated that there were about 3,000 55 gallon drums of virgin and waste chemical stored on the property at the time of our visit. Many of the drums were rusted and leaking chemicals onto the bare ground. A portion of the drum storage area was covered with concrete but this was ineffective in that the concrete was neither sloped nor curbed so as to contain any spilled chemicals. *

{ The bottom portion of a chain link fence and the sidewalk on the western boundary of the facility were discolored. It was obvious that chemicals had once spilled off of Perk's Chemical property. The following is a list of some of the chemicals that are stored in 55 gallon drums:

{ Perchloroethylene
Trichloroethylene
Methylene Chloride
Carbon Tetrachloride
Cyclohexanone
Butyl Cellusolve

Bulk Storage Tanks - There are three (3) 12,000 gallon storage tanks at the facility. Two of the tanks contain Perchloroethylene, the other tank contains Trichloroethylene. There is no secondary containment around any of these tanks. In addition, there are several tank trucks on the property that are used for storage of chemicals. Mr. Rothschild mentioned that these tank trucks were licensed and capable of movement. It appeared to me that the trucks had not moved for some time. One tank truck which contained caustic, had a leaky valve. There is no secondary containment around any of the tank trucks except for a five gallon plastic bucket under the leaky valve.

Truck loading/unloading area - There is no secondary containment.

Mr. Rothschild informed us that the Army Corp. of Engineers is planning to do some construction for a Flood Control Project that involves a portion of Perk's property. The Corps. plans call for the raising of the road on the western boundary of the Perk facility. Because the construction encroaches upon part of Perk's drum storage area, Perk has begun to install concrete pads for drum storage in an area removed from the proposed construction.

The upgrading of Perk's drum storage area is really dependent upon completion of the Flood Control Project. The Flood Control Project may, in fact, provide an adequate barrier for containment of spilled chemicals on the western and southern boundaries of the facility.

On Monday, March 19, 1979, I received a phone call from Ken Woodruff of Resource Recovery Services, Inc. We set up a meeting in Trenton to discuss the proposed upgrading of the Perk facility.

MB:jdm

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO FILE THROUGH Y. YACOB

DATE DEC. 21.87

FROM BOLES LAW CACHOR

SUBJECT ~~XXXXXX~~ CYCLE CHEM Inc. N.J. D002200046,

INCIDENT REPORT, CASE # 87-12-01-0923

On Monday, Dec. 21, 87, during my routine facility inspection, I questioned MR. SCOTT BURY, a company disposal coordinator, about the spill of ~~111~~ 111 Trichloroethane, designated with the case number 87-12-01-0923.

Accord. to MR. S. BURY, a tank trailer holding a pool product (1,1,1 trichloroethane) collapsed during the night and some material was spilled on the ground. The corrective action was undertaken immediately after incident was noticed on the morning on 12/01/87. The spill was cleaned up with the speedy dry and spill cleanup material was treated as haz. waste.

During this inspection I noticed all T/T used for storage of raw material were in good status and in my opinion no further action on this case is necessary.

no further action recommended.

~~41~~
i-24-r

87 12/01 10:13

TRENTON DIS.

0001

TD LOG# 8023

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIV. OF ENVIRONMENTAL QUALITY - BUR. OF COMMUNICATIONS AND SUPPORT SERVICES
Phone: 800-292-7172

COMMUNICATIONS CENTER NOTIFICATION REPORT

CASE NO. 87 - 12 - 01 - 0923
(Yr) (Mo) (Day) (Time)DATE 12 - 01 - 87
(Mo) (Day) (Yr)REC'D
BY EXCELREVIEWED
BYRE
(Initials)

INCIDENT REPORT BY:

Name GARY HOADLEY Phone 201-355-5800
Street 217 SO. 1st ST.
City ELIZABETH State NJ
Affiliation/Title PERK/CYCLE CHEM

INCIDENT LOCATION:

Transportation ☒ Facility ☐ Other ☐
Name (Site): PERK/CYCLE CHEM Phone 201-355-5800
Street 217 SO. 1 st. ST.
City ELIZABETH County UNION State NJ Zip Code

Date of Incident: 12 - 01 - 87
(Mo) (Day) (Yr)Time: 0905

IDENTITY OF SUBSTANCE(S) SPILLED, RELEASED, ETC.:

☒ Known ☐ Suspected ☐ Unknown
Name of Substance(s) (Gas, Liquid, Solid): 11 TRICHLORAETHANE

CAS Number: Amount Released/Spilled 10-15 GAL. ☐ Actual ☐ Potential ☒ EstimatedSubstance Contained (Y/N/U) (Y)Type of Release/Spill: ☒ Terminated ☐ Continuous ☐ IntermittentHazardous Material (Y/N) NATURE OF INCIDENT: ☐ Complaint ☐ Munic. Notification ☐ Emergency ☒ Facil. Notification

INCIDENT DESCRIPTION:

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Hazardous Waste Facility Inspection Form

Facility Name: MYLE CHEM INC.
Address: 217 S. FIRST ST.
ELIZABETH, NJ 07206
Facility Type: TSDF
Block: _____ Lot: _____

Date: MAY 25. 88
Fac. Rep: JOSEPH KOSKOW
Position: LAB TECH.
Inspector: BOLES LAW CZAACHOR
EPA ID No.: MD002200046

Weather Conditions: rain Temp: 55-60 Wind Direction: SW Speed: 0-5 MPH

Operating Authorization:

Facility is operating under (type of authorization): Interim STATUS

Summary of Inspection (check appropriate statement)

Facility: ☒ Is in compliance with operating authorization in areas reviewed during inspection.
☐ Is not in compliance with operating authorization.

Summary of Violations issued:

NONE

Inspection Observations

1. Does the treatment process (including storage tanks) system show any signs of ruptures, leaks, or corrosion?
If yes, explain: _____

2. Spills. If yes, explain: _____

3. Odors. If yes, explain: some chemical
odor on the containers
storage area

YES NO N/A

— ☒ —
— ☒ —
☒ — —

Container Storage (7:26-9.4(d))

Drum No. 3200

Stack Height three

Storage Method concrete pad

Do the containers appear to be in good condition, not in danger of leaking: If no, explain in detail.

☒ — —

Are all containers closed except those in use?

Are incompatible wastes stored separate from each other?

Adequate aisle space?

Are containers stored according to waste characterization?

☒ — —
☒ — —
☒ — —
☒ — —

is each container marked or labeled with the words "Hazardous" and in compliance with the DOT labeling requirements:

- Generator Name
- Address
- UN, NA Number
- DOT Shipping Name
- EPA ID Number
- Manifest Number
- Accumulation Start Date

X	—	—
X	—	—
X	—	—
X	—	—
X	—	—
X	—	—
X	—	—

Vehicles: (7:26-7.1 and 7.5)

- Valid Registration Card
- Numbers Displayed
- Properly Placarded

No vehicles were checked during this inspection.

—	—	X
—	—	X
—	—	X

Manifests: (7:25-7.4, 7.5 and 7.6)

Does each manifest have the following information?

The generator's name, mailing address, telephone number, EPA ID Number and signature?

X	—	—
---	---	---

The transporter's name, EPA ID Number and signature?

X	—	—
---	---	---

SWA transporter registration number?

X	—	—
---	---	---

The name, address, EPA ID Number of the designated facility and signature?

X	—	—
---	---	---

A description of the wastes (DOT)?

X	—	—
---	---	---

The total quantity of each hazardous waste?

X	—	—
---	---	---

Has the generator received signed copies (from the TSDf) of all the manifests for waste shipped off site more than 35 days ago?

X	—	—
---	---	---

Record Keeping: (7:25-9.4 (f and i))

Are the following being kept properly?

1. Daily inspection log?
2. Daily operation log?
3. Waste inventory log?

X	—	—
X	—	—
X	—	—

Samples Taken: () Yes (X) No Number of Samples: N/A

NJDEP ID# N/A

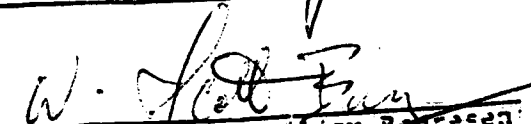
Photographs Taken: () Yes (X) No

B. Cochran
Signature of Inspector

A. Scott Perry
Signature of Facility Representative

Findings and Summary:

- 1) During this inspection I was accompanied by Mr. J. Rosado a facility lab technician.
- 2) Some status was noticed on the still inside the solvents processing building, which is out of service due to maintenance operations. However I observed that solid lwr waste was consolidated in drum on the floor inside that building.
- 3) The drums storage practice. All containers appeared to be in good condition, with lwr. waste labels on them, however on few containers I noticed that labels were getting loose. Mr. J. Rosado was made aware of that problem.
- 4) Minor spill of oily contaminated dirt and heavy oily sheen was noticed by the dumpster on the N/E area of the facility. The area was cleaned up during my presence on site.
- 5) A PCB accident status. According to Mrs. LAURIE Cooper all PCB contaminated waste was shipped off site on ~~Monday~~ ^{Thursday} or Wednesday last week. The final report on that case will be produced and send to the DEP within next few days.
- 6) As it was noticed during last inspection of 05/10/88, a three drums of lwr. waste from

B. Luchner
Signature of Facility Representative

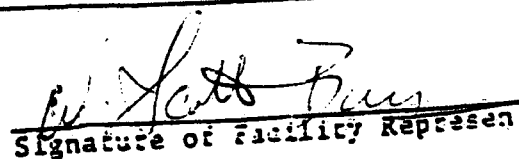
Findings and Summary:

Hochensack Medical CTR were found to be contaminated with PCB, those drums were rejected and sent back to generator. A copy of manifests and notification letter on that case is attached to this report.

2) The recordkeeping and documentation were checked and found in good status, the daily insp. log updated to 5/25/88, log on incoming manifests completed up to 5/25/88 and log on outgoing manifests completed up to 5/25/88

 B. Cochran

A-2


Signature of Facility Represent

In case of an emergency or spill immediately call the state the emergency occurred in and the N.J. Dept. of Environmental Protection. (609) 292-5560 (Day) (609) 292-7172 (Night)



State of New Jersey
Department of Environmental Protection
Division of Hazardous Waste Management
Manifest Section
CN 028, Trenton, NJ 08625

Please type or print in block letters. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039. Expires 9-30-88

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law
3. Generator's Name and Mailing Address HACKENSACK MEDICAL CENTER 20 PROSPECT AVE. HACKENSACK, NJ 07601 ATTN: JOSEPH MONDE		4. Generator's Phone (201) 441-2000		A. State Manifest Document Number NJA 0400331	
5. Transporter 1 Company Name CLEAN VENTURE INC.		6. US EPA ID Number NJD 982281016		B. State Generator's ID SAME	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Trans. ID NJDEPS-5811(20666)	
9. Designated Facility Name and Site Address CYCLE CHEM 217 South First St. ELIZABETH, NJ 07206		10. US EPA ID Number NJD002200046		D. Transporter's Phone (201) 442-4900	
				E. State Trans. ID	
				F. Transporter's Phone	
				G. State Facility's ID NJA	
				H. Facility's Phone (201) 355-5800	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers		13. Total Quantity	14. Unit Wt/Vol
a. <input checked="" type="checkbox"/> HAZARDOUS WASTE LIQUID, NOS		No. Type			Waste No.
X ORM-E NA9189		001 DM000255 G			F1003
b. <input checked="" type="checkbox"/> WASTE COMBUSTIBLE LIQUID, NOS					
X COMBUSTIBLE LIQUID NA1993		001 DM000202 G			F1003
c. WASTE PETROLEUM MIXTURE, LIQUID					
NON-DOT, NON-RCRA WASTE MATERIAL		001 DM000005 G			X726
d. WASTE PETROLEUM MIXTURE, LIQUID					
NON-DOT, NON-RCRA WASTE MATERIAL		003 DM000530 G			X726
J. Additional Descriptions for Materials Listed Above		K. Handling Codes		L. Manifest Section	
1. MINERAL OILS - 29570		L- Lubricating Grease 100%		S 01	
2. ETHANOL/XYLENE/ALCOHOLS		L- Boilers/Auto Lubricating oil 50%		S 01	
3. WATER - 2200		d. Water 20-50%		S 01	
15. Special Handling Instructions and Additional Information		Product Code 40389-IF (MPS-1)		Product Code 40389-BG (MPS-2)	
a) Product Code 40389-IF (MPS-1)		Product Code 40389-IC (MPS-2)		Product Code 40389-ID (MPS-4)	
b) Product Code 40389-IC (MPS-2)		Product Code 40389-ID (MPS-4)		Waste No. 5735	
16. GENERATOR'S CERTIFICATION. I, the undersigned, declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.					
When a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name JOSEPH MONDE		Signature <i>[Signature]</i>		Month Day Year 4 22 88	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Greg Neal		Signature <i>[Signature]</i>		Month Day Year 4 22 88	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
11a. RQ (F003)					
11b. RQ (F003)					
Line item 11b rejected due to mixture of PCBs. See attached discrepancy letter.					
20. Facility, Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name LAURIE A COOPER		Signature <i>[Signature]</i>		Month Day Year 4 22 88	

NJA 0400331



CYCLE CHEM

RECYCLING TREATMENT & DISPOSAL OF HAZARDOUS WASTE

May 11, 1988

Hackensack Medical Center
30 Prospect Avenue
Hackensack, NJ 07601

Attention: Mr. Joseph Meade

RE: NJA0400331

Dear Mr. Meade:

This letter [per N.J.A.C. 7:26 - 9.4 (c)(2)(iv)] is to confirm our telephone conversation of May 4, 1988 with Clean Venture, Inc. supervisor Mike Lantos regarding the presence of PCB Aroclors in three (3) drums of waste oil. These three (3) drums were part of a larger waste shipment from Hackensack Medical Center on April 22, 1988 that was received by Cycle Chem, Inc. Through analyses run per our Quality Control Plan, a three (3) drum composite of an oil and water mixture was determined to contain a mixture of PCB Aroclors that exceeds 50 ppm. Per 40 CFR 761 a PCB concentration greater than 50 ppm constitutes the material to be a "PCB item" or a "PCB container". Cycle Chem, Inc. is not authorized to accept such materials for disposal. Consequently these three (3) drums are being rejected and returned to Hackensack Medical Center for delivery on May 11, 1988. Transportation will be via Clean Venture and the vehicle that will be used is NJDEP55811-E0664. Upon delivery signed receipt of this material will be obtained from a representative of Hackensack.

Sincerely,

Laurie A. Cooper

Laurie A. Cooper
Technical Manager

LAC:mt



CYCLE CHEM

RECYCLING TREATMENT & DISPOSAL OF HAZARDOUS WASTE

May 11, 1988

N.J.D.E.P.

D.H.W.M.

Bureau of Manifest & Information Systems
401 E. State Street - Fifth Floor
Trenton, N.J. 08625

Attention: Mr. Ken Cloutman

RE: NJA0400331

Dear Ken:

On April 22, 1988 a drum load of various types of waste material from Hackensack Medical Center (NJDA4E797571) was transported by Clean Venture, Inc. (NJ09BEEB101E) and was received by Cycle Chem, Inc. Through analyses run per our Quality Control Plan, a three (3) drum composite of an oil and water mixture was determined to contain a mixture of PCB Aroclors that exceeds 50 ppm. Per 40 CFR 761 a PCB concentration greater than 50 ppm constitutes the material to be a "PCB item" or a "PCB container". Cycle Chem, Inc. is not authorized to accept such materials for disposal. Consequently these three (3) drums are being rejected and returned to Hackensack Medical Center for delivery on May 11, 1988. Transportation will be via Clean Venture and the vehicle that will be used is NJDEPS5B11-20064. Upon delivery signed receipt of this material will be obtained from a representative of Hackensack.

Sincerely,

Laurie A. Cooper
Technical Manager

LAC:lmf



CYCLE CHEM

RECYCLING TREATMENT & DISPOSAL OF HAZARDOUS WASTE

May 11, 1988

N. J. D. E. P.
D. H. W. M.
E Babcock Place
West Orange, N. J. 07054

Attention: Mr. Mark Levin

RE: NJA0400331

Dear Marks:

This letter [per N.J.A.C. 7:26 - 9.4 (c)(2)(vi)] is to confirm our telephone conversation of May 10, 1988 regarding the presence of PCB Aroclors in three (3) drums of waste oil. These three (3) drums were part of a larger waste shipment from Hackensack Medical Center on April 22, 1988 that was received by Cycle Chem, Inc. Through analyses run per our Quality Control Plan, a three (3) drum composite of an oil and water mixture was determined to contain a mixture of PCB Aroclors that exceeds 50 ppm. Per 40 CFR 761 a PCB concentration greater than 50 ppm constitutes the material to be a "PCB item" or a "PCB container". Cycle Chem, Inc. is not authorized to accept such materials for disposal. Consequently these three (3) drums are being rejected and returned to Hackensack Medical Center for delivery on May 11, 1988. Transportation will be via Clean Venture and the vehicle that will be used is NJDEPB5811-20664. Upon delivery signed receipt of this material will be obtained from a representative of Hackensack.

Sincerely,

Laurie A. Cooper
Technical Manager

LAC:1mt

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COMMUNICATIONS CENTER NOTIFICATION REPORT

CASE NO. 88-05-10-1051
(Yr) (Mo) (Day) (Time)

DATE 05-10-88
(Mo) (Day) (Yr)

REC'D BY ANDREJCO

REVIEWED BY JEF

INCIDENT REPORT BY:

Name LAURIE COOPER Phone 201-355-5800
Street
City
Affiliation/Title CYCLE CHEM TECHNICAL MANAGER

INCIDENT LOCATION:

Transportation ☒ Facility ☐ Other ☐
Name (Site): CYCLE CHEM Phone 201-355-5800
Street 217 SOUTH FIRST STREET
City ELIZABETH County UNION State NJ Zip Code

Date of Incident: 04-22-88 Time: 1700
(Mo) (Day)

IDENTITY OF SUBSTANCE(S) SPILLED, RELEASED, ETC.: Known ☐ Suspected ☒ Unknown ☐

Name of Substance(s) (Gas, Liquid, Solid): OIL AND WATER WITH PCBs
CAS Number: N/A
Amount Released/Spilled: 3 DRUMS ☒ Actual ☐ Potential ☐ Estimated
Substance Contained (Y/N/U) ☒ N/U
Type of Release/Spill: ☒ Terminated ☐ Continuous ☐ Intermittent

Hazardous Material (Y/N) ☒ N

NATURE OF INCIDENT: Complaint ☐ Munic. Notification ☐ Emergency ☐ ☒ Facil. Notification

INCIDENT DESCRIPTION:

Fire ☐ Explosion ☐ Air Rel ☒ Spill ☐ MVA ☐ Derailment ☐ Smoke/Dust
Odors ☐ Sewage ☐ NJPDES ☐ Noise ☐ Illegal Dumping ☐ Wildlife
Equip Start-up/Shutdown, Equip Fail/Upset, etc.
☒ Other (specify) WASTE MATERIAL SHIPMENT-UNAUTHORIZED

Injuries (Y/N/U) ☒ N/U Public Exposure (Y/N/U) ☒ N/U
Facility Evacuation (Y/N/U) ☒ N/U Police at Scene (Y/N/U) ☒ N/U
Public Evacuation (Y/N/U) ☒ N/U Firemen at Scene (Y/N/U) ☒ N/U
Contamination of Air ☐ Land ☐ Water ☐ Assistance Requested (Y/N/U) ☒ N/U
Potable Water Source (Y/N/U) ☒ N/U Wind Direction/Speed /
Receiving Water Precipitation (rain/snow) /
Location Type: Residential ☐ Industrial ☒ Rural ☐ Sensitive Population (Hosp., School, Nurs. Home)

STATUS AT INCIDENT SCENE CALLER STATED FACILITY RECEIVED AN UNAUTHORIZED SHIPMENT OF WASTE MATERIAL - FACILITY IS SHIPPING BACK TO ORIGINAL PARTY.

RESPONSIBLE PARTY: Known ☐ Suspected ☒ Unknown ☐

Company Name HACKENSACK MEDICAL CENTER Phone 201-441-2000
Contact JOE MEADE Title N/A
Street
City County State Zip Code

OFFICIALS NOTIFIED (Name/Title):

NJSP: / NJSP-OEM Phone OFFICE Date/Time 05-10-88 (T/M)
Local Health: / Phone Date/Time / (T/M)
Local Munic: / Phone Date/Time / (T/M)
USEPA: / Phone Date/Time / (T/M)

INCIDENT REFERRED TO:

☒ DEQ ☐ DWR ☒ DSWM ☐ DHSM ☒ DHWM ☐ DOH ☐ DFG ☐ DPF ☐ DCJ ☐ DCR
Region: Northern ☐ Metro ☒ Central ☐ Southern ☒ ER1 ☐ ER2
1. Name/Affil MARK LEVINE / ER 1 Phone office Date/Time 05-10-88 1058 (T/M)
2. Name/Affil / DHWM-M Phone office Date/Time 05-10-88 (T/M)
3. Name/Affil PAT FERRARO / DSWM Phone office Date/Time 05-10-88 1115 (T/M)

IMMEDIATE DEP RESPONSE (Y/N) [Emergency (Y/N)] Enforcement (Y/N)]

COMMENTS

ATTACHMENT



Perk chemical company, inc.

Bills
Longstreet
File

20050

September 24, 1979

Department of Environmental Protection
Solid Waste Administration
32 East Hanover Street
Trenton, New Jersey 08608

Re: Report on Chemical Spill

This letter is to provide you with a report required under the law, whenever a spill of hazardous chemicals occurs.

On July 25, 1979, at approximately 11:30 a.m., a storage tank having a nominal capacity of 12,000 gallons perchlorethylene broke at the weld and began to spill its contents on the ground.

According to our records the tank had an approximate inventory of 11,300 gallons at the time it began to spill.

The following is a narrative of the sequence of events on July 25:

1. Plant employee notifies management at 11:30 of tank break.
2. Within 30 seconds the undersigned inspects area of break personally and begins remedial action.
3. Two plant employees are instructed to sandbag sewer catch basins on South First Street.
4. Two drivers are instructed to hook up to a ready vacuum tank trailer and bring the same on street. Vacuum tank trailer has its own self contained diesel engine.
5. Our crew, with the vacuum equipment, begins to suck up the spilled solvent from the street area.
6. Sandbags are also placed on the property line to avoid any more solvent from leaving the property and spilling on the street. Eventually this solvent, too, is sucked up with the vacuum unit.
7. Once these operations are in progress the mandatory report is made to DEP, where this report is accepted by Mr. Faherty at 12:40.

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The following is a narrative of the sequence of events on July 25:

Department of Environmental Protection
Solid Waste Administration
32 East Hanover Street
Trenton, New Jersey 08608

September 24, 1979

Ferk Chemical Company, Inc.

Divide
Longest
Five

Druck
to



In the DPCC and DCR Plans filed earlier this year with your department our company contemplated replacement of the two above mentioned tanks by the end of 1979 and we are now removing these tanks from service ahead of schedule.

The company had on its premises a sister tank, installed at the same time as the damaged tank. To avoid a recurrence of this type of problem, the company is now in the process of removing this sister tank from service, even though it still appears to be in serviceable condition. At this time the tank contents of 12,000 gallons originally have been drawn down to about half capacity. It is expected that within the next thirty days the tank will be fully emptied and it will then be completely removed from service.

At this point no accurate estimate of the recovery is available, since the distillation operation has not been concluded.

As was stated earlier, the tank contents at the time of spill were approximately 11,300 gallons. At the conclusion of the clean up operation, there was close to 12,000 gallons contained in the vacuum tank and the extra storage tank. This material is now being reclaimed. Since the vacuum tank, at the time of spill, contained a small quantity of dirty oil the entire salvaged chemicals have to be run through distillation to clean them up.

13. During the entire operation city officials from the health department, fire department, water department, and sewer department were present. At the conclusion of the operation they expressed satisfaction with the way our company handled the clean up.

12. The entire operation is completed at approximately 4:45 in the afternoon and all the equipment is brought back into the yard.

11. After all the solvent is removed from the street area, the vacuum tanker is moved over a manhole approximately 200 feet downstream from the spill site. The vacuum hose is lowered into the drain area and then the entire flow is sucked up from the drain into the vacuum tank. This process is continued for approximately one and a half hours, again under the supervision of Mr. Santora.

10. Mr. Scott Santora and Mr. Frank Marshall, of the DEP, are on the scene and are observing the clean up operation and making constructive suggestions to facilitate complete pick up.

9. A second call is placed to Mr. Faherty at 3:05 in the afternoon advising him of the continuance of the clean up operation.

8. As the vacuum trailer is filled up, a second empty available trailer is brought in from our yard and the initially picked up load is transferred into this trailer for storage purposes. As the vacuum trailer is now empty again, it is placed back into further service in picking up the remaining solvent.

RR/jh

President

Ray Rothschild

PERK CHEMICAL CO., INC.

Yours very truly

If any further information in regard to this incident is required, please feel free to contact us.

Observations and/or Other Comments

situation at this time.

10. Some minor problems found with manifests, some sections are not filled out completely.

Examples - A76084 (name of facility blank), A02810 (date missing in section I).

Inspector's Signature

Thomas H. Denny

- Facility Operator's Signature

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NOV - 2

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director

Hazardous Waste Operations

John J. Treia, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Lance R. Miller
Deputy Director

Responsible Party Remedial Action

OCT 31 1988

Hazardous Waste Facility Permit

Under the provisions of N.J.S.A. 13:1E-1 et seq. known as the Solid Waste Management Act, this permit is hereby issued to:

Cycle-Chem, Inc.
217 South First Street
Elizabeth, New Jersey 07206

For the Purpose of Operating a:	Hazardous Waste Storage and Treatment Facility and Transfer Station
on Lot No.:	865 and part of 74
Block No.:	2
in the Municipality of:	Elizabeth
County:	Union
Under Facility Permit No.:	2004E2HP01

This permit is subject to compliance with all conditions specified herein and all regulations promulgated by the Department of Environmental Protection.

This permit shall not prejudice any claim the State may have to Riparian land nor does it permit the registrant to fill or alter, or allow to be filled or altered, in any way, lands that are deemed to be Riparian, Wetlands, stream encroachment or flood plains, or within the Coastal Area Facility Review Act (CAFRA) zone or allow the discharge of pollutants to waters of this State without first acquiring the necessary grants, permits, or approvals from the Department of Environmental Protection or the U.S. Environmental Protection Agency.

Date

Frank Coolick
Acting Assistant Director

Expiration Date

This permit, along with the referenced engineering plans and report herein specified, shall constitute the sole Hazardous Waste Facility Permit for Cycle-Chem, Inc., Elizabeth City, Union County. Any Registration or approval previously issued by the Division of Hazardous Waste Management or its predecessor agencies is hereby superseded.

This permit is issued and is effective for a term of five years. This permit is not transferable to any person. The Department will require revocation and reissuance of the permit in accordance with N.J.A.C. 7:26-1 et seq. whenever ownership or operational control of a facility changes. The permittee need not comply with the conditions of this permit to the extent and for the duration such noncompliance is authorized by an emergency permit (N.J.A.C. 7:26-12.9).

The permit is conditioned upon compliance with and implementation of the following:

1) Duty to Comply

The permittee shall comply with all conditions of this Permit. Any permit non-compliance constitutes a violation of the Solid Waste Management Act (N.J.S.A. 13:1E-1.1 et seq.) and is grounds for enforcement action; for permit termination, revocation and reissuance, modification; or for denial of a permit renewal application.

Any generator, hauler, facility operator or any other person who discharges or is responsible for discharge of hazardous waste on land or in the waters of the State of New Jersey or at any place other than an approved hazardous waste facility shall be subject to penalties pursuant to N.J.S.A. 58:10A-1 et seq.

2) Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall submit a complete application for a new permit at least 180 days prior to permit expiration.

3) Duty to Halt or Reduce Activity

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

4) Duty to Mitigate

The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from non-compliance with this permit.

5) Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.

The permittee shall establish transfer operation work order form for the facility. A transfer operation work order form shall be completed for each transfer of waste performed. The form should include the specific identification of the wastes to be transferred and specific identification of the container, tank, or tank truck or trailer to which the waste is to be transferred, as well as any specific operating procedures to be employed during the transfer operation. If a discrepancy occurs in any of these areas, then the transfer operator shall obtain written approval from supervisory personnel before continuing the transfer operation.

6) Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any permit condition.

7) Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

8) Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Department, upon request, copies of records required to be kept by this permit.

9) Right of Entry

The permittee shall allow an authorized representative of the Department upon presentation of credentials to:

- a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records shall be kept under the conditions of this permit;
- b) Have access to and copy any records that should be kept under the conditions of this permit;
- c) Inspect any facilities, equipment (including monitoring control equipment), practices, or operations regulated or required under this permit; and
- d) Sample or monitor for the purposes of assuring permit compliance or as otherwise authorized by the Solid Waste Management Act (N.J.S.A. 13:1E-1.1 et seq.), any substances at any location.

10) Monitoring and Records

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

- a) The permittee shall retain records of all monitoring information, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Department at any time.
- b) Records of monitoring information shall include:
 - 1) the date, exact place, and time of sampling or measurement;
 - 2) the individual(s) who performed the sampling or measurement;
 - 3) the date(s) analyses were performed;
 - 4) the individual(s) who performed the analyses;
 - 5) the analytical techniques or methods used; and
 - 6) the results of each analysis.

11) Signatory Requirement

All applications, reports, or information submitted to the Department shall be signed and certified pursuant to N.J.A.C. 7:26-12.2(1).

12) Reporting Requirements

- a) Upon issuance of this permit, the permittee shall comply with the procedure outlined in Conditions 12(a)1 and 12(a)2 below. Failure to comply with the aforementioned procedure shall be cause for immediate revocation of this permit:
 - 1) The permittee shall submit to the Department, by certified mail or hand delivery, within ninety (90) days of the effective date of this permit, a letter signed by

the permittee and a registered professional engineer stating that the facility layout and design is in compliance with the approved Engineering Plans and Reports (see Condition 13). This shall include the submittal of a revised set of engineering drawings outlined in Condition 13 and the following:

- a) A detailed drawing depicting the facility layout to be employed during the period of construction of the tanks, including the arrangement of containers to be stored in the temporary storage area (which shall include 30 inch aisle spaces), the area where the tank farm construction will take place, the three tank trailers, the dump trailers or roll-off containers, the office and laboratory trailers, and the traffic patterns for the tank trucks and construction equipment entering and leaving the facility.
- b) A detailed drawing depicting the facility layout to be employed after the construction is finished including the proposed tank farm, the container storage area (which shall include 30 inch aisle spaces), the three tank trailers, the dump trailers or roll-off containers, office and laboratory trailers and the traffic patterns for the tank trucks entering and leaving the facility.

These drawings shall be signed and sealed by a registered professional engineer and;

- 2) The Department shall inspect the facility to determine whether or not it is in compliance with the designs set forth in the Engineering Plans and Reports. If within 15 days of the date of submission of the letter in Condition 12(a)(1) of this section, the permittee has not received from the Department the intent to inspect, prior inspection is waived and it is understood that the facility meets the design requirements. If the facility is not in compliance with the design, a schedule shall be submitted within thirty (30) days of the date of the Department's inspection outlining how the facility will be brought into compliance. The schedule shall be subject to the Department's approval.

b) Planned Changes

The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. The permittee shall obtain Departmental approval, prior to implementation, for any such alteration or addition subject to Departmental regulations or the conditions of this permit, including permit modification or permit revocation and reissuance, if necessary.

c) Anticipated Noncompliance

The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. Such advance notice shall not stay the applicability of said permit requirements or the applicability of Condition 1 of this permit, nor shall it relieve the permittee from the obligation to obtain all necessary Departmental approvals of such changes prior to implementation, including permit modification, permit revocation and reissuance, or issuance of an emergency permit, when necessary.

d) Transfer of Ownership or Operational Control

- 1) Permits issued pursuant to N.J.A.C. 7:26-12.1 et seq. are not transferable directly to a new owner or operator.
- 2) The permittee shall notify the Department at least 180 days in advance of any proposed change of ownership or operational control of a facility. The notice shall include:
 - i) A disclosure statement prepared by the prospective new permittee meeting the requirements of N.J.A.C. 7:26-1 et seq.;
 - ii) A written agreement between the existing permittee and the proposed new permittee containing a specific future date for transfer of permit responsibilities coverage and liabilities between them;
 - iii) A demonstration that the financial responsibility requirements of N.J.A.C. 7:26-9.10 and N.J.A.C. 7:26-9.13 will be met by the proposed new permittee.
- 3) A new owner or operator may commence operations at the facility only after the existing permit has been revoked and reissued pursuant to N.J.A.C. 7:26-12.6(c).
- 4) The Department reserves the right to terminate the existing permit for cause pursuant to N.J.A.C. 7:26-12.7.
- 5) The permittee of records remains liable for ensuring compliance with all conditions of the permit unless and until the existing permit is reissued in the name of the new owner or operator.

e) Manifest Discrepancy - The following reports shall also be submitted:

- 1) If a discrepancy in a manifest is discovered, the permittee shall attempt to reconcile the discrepancy. Within one week, the permittee shall submit a letter report, including a copy of the manifest, to the Department. Manifest discrepancies are differences

between the quantity or type of hazardous waste designated on the manifest or shipping paper, and the quantity or type of hazardous waste a facility actually receives.

1) Discrepancies in quantity are:

(A) For bulk waste, variations greater than one percent in weight, and

(B) For batch waste, any variation in piece count, such as a discrepancy of one drum in a truckload.

ii) Discrepancies in type are differences which can be discovered by inspection or waste analysis, such as waste solvent substituted for waste acid, or toxic constituents not reported on the manifest or shipping paper.

2) An unmanifested waste report shall be submitted to the Department within 15 days of receipt of unmanifested waste.

f) Annual Reports

1) The permittee must prepare and submit two copies of a facility annual report to the Department as per N.J.A.C. 7:26-7.6(f)2 by March 1 of each year, covering the previous calendar year's hazardous waste facility activities.

2) The permittee shall comply with the following for tank shell thickness measurements report submittal:

i) Submit a test plan and schedule for shell thickness measurements for the distillation plant components listed in condition 14(a) of this permit, for Department review and approval within thirty (30) days of the effective date of this permit;

ii) Perform the tests for tank shell thickness measurements within nine (9) months after approval of the plans by the Department;

iii) Submit the test results for tank shell thickness to the Department within thirty (30) days after the testing dates;

iv) Repeat the approved tank shell thickness test plan annually and submit the test results to the Department within thirty (30) days after the testing dates;

v) Submit a test plan and schedule for shell thickness measurements for the twelve (12) new vertical tanks

listed in Condition 14(g) of this permit, for Department review and approval, at least six (6) months prior to the intended start of hazardous waste storage in said tanks;

- vi) Perform the tests for tank shell thickness measurements on these tanks within the time frame to be specified in the Department approval of the plans; and
- vii) Submit the test results and thereafter repeat the tank shell thickness testing annually, in conformance with the above items iii and iv of this condition.
- viii) In the event the results of the tests for tank shell thickness indicate a shell thickness less than the minimum shell thickness specified in Conditions 14a and 14g, the permittee shall comply with the following:
 - (A) Provide immediately oral and written notification to the Department of the tank(s) failing the minimum shell thickness;
 - (B) Remove all waste from the tank to a permitted tank which meets the minimum shell thickness requirements;
 - (C) Refrain from adding any waste to the tank;
 - (D) Submit a corrective plan to the Department, within thirty (30) days from the date of oral notification, for Department review and written approval; and
 - (E) The company shall not use or close the tank without obtaining written approval from the Department.

g) Discharge and Other Emergency Reporting

The permittee shall report any noncompliance which may endanger human health or the environment. The following information shall be reported orally to the Department immediately after the permittee becomes aware of the circumstances by calling (609) 292-7172.

- 1) Information concerning release of any hazardous waste that may cause an endangerment to public drinking water supplies.
- 2) Any information of a release or discharge of hazardous waste, or a fire or explosion from a hazardous waste facility which could threaten the environment or human health outside the facility.

- 3) The description of the occurrence and its cause shall include:
- i) Name, address, and telephone number of the owner or operator;
 - ii) Name, address, and telephone number of the facility;
 - iii) Date, time and type of incident;
 - iv) Name and quantity of material(s) involved;
 - v) The extent of injuries, if any;
 - vi) An assessment of actual or potential hazards to the environment and human health outside the facility, where this is applicable; and
 - vii) Estimated quantity and disposition of recovered material that resulted from the incident.

A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances to the address in Section (j) of this condition. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

h) Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Section (c) or (g) of this Condition within 30 days of the time the permittee becomes aware of the noncompliance. The reports shall contain the information listed in Section (g) of this Condition.

i) Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.

j) Department Address

All reports and submittals required by this permit are to be submitted to the Department of Environmental Protection at the following address:

Department of Environmental Protection
Division of Hazardous Waste Management
Chief, Bureau of Hazardous Waste Engineering
CN028
Trenton, New Jersey 08625

A copy of each such report and submittal shall also be sent to the Division of Hazardous Waste Management regional field office.

13) Referenced Engineering Plans and Reports

The permittee shall operate the facility in accordance with Title 7, Chapter 26 of the New Jersey Administrative Code and the following submissions:

- a) Cycle-Chem, Inc. Part A and Part B permit application for a hazardous waste facility, certified June 17, 1987 by Paul Fleischmann, President.
- b) Engineering design plans prepared by Byron B. Bradd, P.E., Drawings PCC-01, -02A, -03, -04, -05, -07, -10 and -15, all dated January 20, 1986, and PCC-14, dated August 15, 1986.
- c) Engineering drawings titled "Gate Valve Installation", 1 of 2 and 2 of 2, prepared by Byron B. Bradd, P.E. and dated January 20, 1986.
- d) Engineering drawings titled "Corrosive Waste Storage Area", 1 of 2 and 2 of 2, prepared by Byron B. Bradd, P.E. and dated August 16, 1986.
- e) Engineering drawings PCC-1419-1000, 1001, 1002, 1003 and 1004 signed and sealed June 8, 1987 by John F. Shultis, P.E.
- f) Engineering drawings PCC-35 titled "Pilot Mechanical Solidification Unit General Arrangement" prepared by Byron B. Bradd, P.E. and dated January 20, 1986.

14) Authorized Activity

a) Storage

- 1. The permittee is authorized to store hazardous waste in drums outdoors on the premises to a total maximum volume of 215,000 gallons (a maximum number of 4,200 x 55 gallon drums or the equivalent volume of other size U.S. Department of Transportation approved containers. The U.S.D.O.T. approved containers may be used to a maximum of 600 gallons per container. All drums and containers shall be arranged as shown on Drawing PCC-14, referenced in Condition 14(b) of this permit.

As the proposed tanks are installed, the maximum number of drums will decrease to (2,136 x 55 gallon drums or

the equivalent volume of other size USDOT approved containers) a maximum volume of 117,500 gallons total.

Containers shall be of materials compatible with the waste stored inside. Pavement of the storage area shall be at least 5" concrete and free of cracks and gaps and shall be sufficiently impervious to contain leaks, spills, and accumulated rainfall until contaminated liquids are detected and removed. The base shall have a permeability rating no greater than 10⁻⁷ centimeters per second, in addition to adequate structural integrity to withstand the maximum anticipated stress applied to the base due to activities or structures placed in the containment area.

The secondary containment shall surround the storage area and shall have at least 4" concrete curbing capable of collecting and holding spills, leaks and precipitation.

All hazardous waste shall be stored in containers that meet the requirements of N.J.A.C. 7:26-7.2 and managed in accordance with N.J.A.C. 7:26-9.4(d).

Acids and alkalis shall be stored in separate sections of the corrosive waste storage area. This storage area shall be lined with an acid-proof lining, diked and have a total capacity of 384 x 55 gallon containers and a maximum volume of 21,120 gallons. The maximum container storage volume for the acids and alkalis is included in the total container storage volume for the facility as referenced above. The storage of the acids and alkalis in this corrosive waste storage area may begin only after the construction in accordance with Condition 30 of this permit is completed and an approval is given from the Department.

2. Proposed New Tanks

The permittee will be authorized to store hazardous waste in 9 vertical tanks of 7,500 gallons capacity each and 3 vertical tanks of 10,000 gallons each (97,500 gallons total volume) and arranged as shown on Drawings PCC-1419-1000, 1001, 1002, 1003 and 1004 referenced in Condition 13(e) of this permit, subject to Department approval of final construction in accordance with Condition 30 of this permit. Tanks shall be of materials compatible with the waste stored inside. Pavement of the storage area shall be at least 5" concrete and free of cracks and gaps and shall be sufficiently impervious to contain leaks, spills, and accumulated rainfall until contaminated liquids are detected and removed. The base shall have a permeability rating no greater than 10⁻⁷ centimeters per second, in addition to adequate structural integrity to withstand the maximum anticipated stress applied to

the base due to activities or structures placed in the containment area. The secondary containment shall surround the storage area and shall have at least 2 ft. 6" concrete curbing capable of collecting and holding spills, leaks, and precipitation. The two 7,500-gallon tanks intended for acid solution service shall be constructed of stainless steel, or carbon steel lined with Carboline Carboglas R1601 SG. Other tanks, intended for flammable liquid, caustic solution or chlorinated solvent service, shall be constructed of carbon steel. The approved tanks are as follows:

<u>Tank Number</u>	<u>Waste Types</u>	<u>Capacity (gallons)</u>	<u>Minimum Wall Thickness (inches)</u>
1	Flammable Liquids	7,500	0.1875
2	Flammable Liquids	7,500	0.1875
3	Flammable Liquids	7,500	0.1875
4	Flammable Liquids	10,000	0.1875
5	Flammable Liquids	7,500	0.1875
6	Flammable Liquids	10,000	0.1875
7	Caustic Solutions	7,500	0.1875
8	Caustic Solutions	10,000	0.1875
9	Acid Solutions	7,500	0.1670
10	Chlorinated Solvents	7,500	0.1875
11	Acid Solutions	7,500	0.1670
12	Chlorinated Solvents	7,500	0.1875

Existing Mixing Vat

The permittee is authorized to store waste chlorinated hydrocarbons listed in Condition 15a of this permit, in

the 2,000 gallon indoor still mixing vat for distillation.

3. The permittee is authorized for the intermittent temporary storage of the liquid hazardous wastes listed in Condition 15b of this permit in three tank trailers of total capacity of 18,500 gallons, while full loads are assembled. Individual trailer capacities are 8,000, 5,500 and 5,000 gallons.

4. The permittee is authorized to accumulate solid hazardous wastes listed in Condition 15d of this permit in dump trailers or roll-offs containers to a maximum number of three (3) and of a maximum total capacity of 70 cubic yards (approximately 14,000 gallons).

5. Table of existing/proposed hazardous waste storage capacity at the facility.

(Gallons)

	<u>Existing</u>	<u>Proposed</u>
Drums	215,000	117,500
Tanks	2,000	99,500
Tank trailer	18,500	18,500
Dump trailer/roll-off container	14,000	14,000
Total capacity	249,500	249,500

b) Distillation of Chlorinated Solvents

The permittee is authorized to operate a batch distillation plant for waste chlorinated hydrocarbons listed in Condition 15a of this permit, whose capacity is 2,000 gallons per batch. The components of the distillation plant are as follows:

<u>Designation</u>	<u>Material of Construction</u>	<u>Minimum Wall Thickness, inches</u>	<u>Volume, Gallons</u>
Mixing vat	carbon steel	0.167	2,000
Still Kettle	Monel-clad steel	0.300	3,000
Water Separator	Stainless Steel	0.071	42
Holding Tank	Stainless Steel	0.071	350
Tank A	Stainless Steel	0.115	1,500

Tank B	Stainless Steel	0.115	1,500
Filter 1 and 2	Carbon Steel	0.093	8 (2)
Drying Column	Carbon Steel	0.50	200
Carbon Column	Stainless Steel	0.09	175

- (c) The permittee is authorized to operate as a transfer station for drums of hazardous wastes listed in Condition 15 of this permit. Drums accepted for transfer only shall be manifested offsite without treatment to appropriate, authorized commercial hazardous waste storage, treatment or disposal facilities.
- d) The permittee is authorized to solidify in drums with cement or equivalent materials, partly liquid slurries and sludges of the waste types listed in Condition 15d of this permit. The solidified wastes shall be either manifested off-site in their original drums to appropriate, authorized commercial hazardous waste storage, treatment or disposal facilities, or else bulked with other compatible solid hazardous wastes in accordance with Condition 14e of this permit.

Approval of this method of solidifying partly liquid wastes does not constitute a finding that the process achieves any chemical stabilization of the waste, or that the resulting solidified waste is eligible for disposal in any landfill. The permittee should be aware that Federal law (Section 3004(c)(1) of the Hazardous and Solid Waste Amendments of 1984 to the Resource Recovery and Conservation Act of 1976, 42 USC 6921 et seq.) prohibits the placement of bulk or non-containerized liquid hazardous waste or free liquids contained in hazardous waste (whether or not absorbents have been added) in any landfill.

- e) The permittee is authorized to mix compatible solid hazardous wastes (using the compatibility test described in Condition 16b) of the waste types listed in Condition 15d of this permit and hazardous wastes solidified pursuant to Condition 14d of this permit in the dump trailers or roll-off containers listed in Condition 14(a)4 of this permit. The loaded dump trailers and roll-off containers shall be manifested off-site to appropriate authorized commercial hazardous waste storage, treatment or disposal facilities.
- f) The permittee is authorized to blend compatible liquids (using the compatibility test described in Condition 16b) of the waste types specified in Condition 15b of this permit, in drums, tank trucks, or vertical tanks (subsequent to Department approval of the vertical tank construction in accordance with Condition 30 of this permit) designated for

the waste category involved (caustic solutions, acid solution, chlorinated solvents or flammable liquids). The blended liquids shall be manifested offsite to appropriate, authorized commercial hazardous waste storage, treatment or disposal facilities, except for blended chlorinated solvents of the waste types listed in Condition 15a of this permit, which may be processed in the on site distillation system.

- g) The permittee is authorized to operate as a transfer station for Lab Pack wastes listed in Condition 15c. Lab Packs are small bottles, jars, jugs etc. of waste chemicals (i.e. reagents, process samples, run and QC samples, off-spec products etc.) segregated into compatible groups in accordance with EPA-600/2-80-076 and the compatibility test listed in Condition 16b. The Lab Packs shall arrive at the permittee's facility packaged unopened together with an inert sorbent such as vermiculite, in sealed openhead containers ranging in size from 5 gallons to 85 gallons having been packaged at the generator's site by chemists experienced in the identification, segregation and packaging of laboratory chemicals.

The permittee is authorized to repack from one overpack drum to another the bottles, jars, jugs, etc. that are determined compatible by the test described in Condition 16b. Filled overpack drums shall be manifested off-site to appropriate authorized treatment or disposal facilities. The repacking shall take place in the 45-foot box trailer described in the Part B permit application referenced in Condition 13a until the proposed canopy is constructed and approved by the Department in accordance with Condition 30, at which time the repacking shall be conducted under the canopy. No more than 10 overpack drums shall be opened in the repack area at any one time. All lab pack overpack drums opened for repacking operations shall be resealed and returned to the authorized storage area at the end of each day.

For lab pack liquid wastes of the types listed in both Conditions 15b and 15c, the permittee may open the individual bottles, jars, jugs, etc. and pour the contents into drums containing compatible wastes, provided compatibility has been confirmed by the testing described in Condition 16b. The emptied bottles, jars, jugs, etc. shall be crushed and accumulated in an authorized container for hazardous waste solids, which shall be manifested off-site to an appropriate authorized commercial hazardous waste storage, treatment or disposal facility.

- h) The permittee is authorized to install a pilot unit for solidifying hazardous waste liquids or semi-solids from drums to make them acceptable to manifest to a secure landfill or hazardous waste incinerator. The proposed unit shall consist of a mixer, two charging hoppers and a discharge chute. Wastes to be solidified are listed in Condition 15d. Batches shall consist of 225 gallons per batch.

The date of start-up for this pilot unit shall be within one year of the date this permit becomes effective and the length of operation shall be six months from this date with the option of requesting an extension at the end of the fifth month. Fifteen days prior to the start of operation, the permittee shall notify the Bureau of Hazardous Waste Engineering, submit drawings of the pilot unit installation and an outline of the materials to be tested. If an extension is requested, the permittee shall submit a new outline of testing materials with proper justification for additional time. Fifteen days prior to completion of the pilot operation the permittee shall notify the Bureau of Hazardous Waste Engineering and thirty days after the operation is complete, the permittee shall submit a final report with the date of completion. All notifications shall be made to the address as noted in Condition 12j.

i)

The permittee is authorized to install a pilot unit to separate the various components of dry cleaners' spent filter cartridges. The unit is intended to evaluate the feasibility of processing non-hazardous liquids and solids in small lab pack containers, (for the non-hazardous wastes listed in Condition 15b(2) only) and also to investigate the recovery and recycle of metal and perhaps carbon, and the reduction of the overall volume of waste. The proposed unit shall consist of a feed hopper, a rotary shear shredder, a rotating screen trommel, and a conveyor belt.

The date of start-up for this pilot unit shall be within one year of the date this permit becomes effective and the length of operation shall be six months from this date with the option of requesting an extension at the end of the fifth month. Fifteen days prior to the start of operation, the permittee shall notify the Bureau of Hazardous Waste Engineering, submit drawings of the pilot unit installation and an outline of the materials to be tested. If an extension is requested, the permittee shall submit a new outline of testing materials with proper justification for additional time. Fifteen days prior to completion of the pilot operation the permittee shall notify the Bureau of Hazardous Waste Engineering and thirty days after the operation is complete, the permittee shall submit a final report with the date of completion. All notifications shall be made to the address as noted in Condition 12j.

The permittee may process small containers of halogenated solvents (less than 5 gallons) in this pilot unit.

j)

The permittee is authorized to operate a drum crusher located at the north corner of the process building for hazardous waste drums which are empty in accordance with N.J.A.C. 7:26-8.4. Crushed drums shall be loaded directly into a shipping container or trailer as referenced in Condition 14(a)4 for shipment offsite. Drums that cannot be emptied or which contained wastes listed in N.J.A.C. 7:26-8.15 ("P numbers") shall be manifested offsite to an authorized

commercial hazardous waste storage, treatment or disposal facility.

- k) The permittee is authorized to clean hazardous waste tank trailers and tanks (vertical tanks subsequent to Department approval of construction in accordance with Condition 30 of this permit) internally as may be necessary to avoid mixing incompatible wastes or to avoid contaminating wastes with hazardous materials with which they would otherwise not be contaminated. Cleaning shall be performed in accordance with the following publications:

American Petroleum Institute

- (1) Cleaning Petroleum Storage Tanks, latest edition
- (2) Cleaning Mobile Tanks in Flammable or Combustible Liquid Service, latest edition

- 1) The permittee is not authorized to store hazardous waste in the outdoor horizontal tanks, which are to be used for virgin or reclaimed materials conforming to the specifications of Condition 31 only.

- m) Any changes or alterations to this authorized activity section must obtain prior approval from the Bureau of Hazardous Waste Engineering.

15) Permitted Waste Types

- a) The permittee is authorized to accept the following chlorinated organic spent solvents for distillation at the facility:

NJDEP Hazardous
Waste Number

Hazardous Waste

F001

The following spent halogenated solvents used in degreasing:

Tetrachloroethylene
Trichloroethylene
Methylene chloride
1,1,1-Trichloroethane

F002

The following spent halogenated solvents:

Tetrachloroethylene
Trichloroethylene
Methylene chloride
1,1,1-Trichloroethane

K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane
K029	Waste from the production streams stripper in the production of 1,1,1-trichloroethane
K030	Column bottom or heavy ends from the combined production of trichloroethylene and perchloroethylene
U080	Methylene chloride
U210	Tetrachloroethylene
U226	1,1,1-Trichloroethane
U228	Trichloroethylene

- b) 1. The permittee is authorized to store the following wastes in containers, vertical tanks and tank trailers:

NJDEP Hazardous
Waste Number

Description

D001	ignitable, not otherwise classified
D002	corrosive, not otherwise classified
D003	reactive, not otherwise classified
D004	arsenic by EP test
D005	barium by EP test
D006	cadmium by EP test
D007	chromium by EP test
D008	lead by EP test
D009	mercury by EP test
D010	selenium by EP test
D011	silver by EP test
F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-tri-chloroethane, carbon tetrachloride, and the chlorinated fluorocarbons; and sludges from the recovery of these solvents from degreasing operations.
F002	The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-tri-fluoroethane, o-dichlorobenzene, trichlorofluoromethane and the

- still bottoms from the recovery of these solvents.
- F003 The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; and the still bottoms from the recovery of these solvents.
- F004 The following spent non-halogenated solvents: cresols and cresylic acid, nitrobenzene; and the still bottoms from the recovery of these solvents.
- F005 The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, and the still bottoms from the recovery of these solvents.
- F007 Spent plating bath solutions from electroplating operations (except for precious metals electroplating spent cyanide plating bath solutions).
- F009 Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the process (except for precious metals electroplating spent stripping and cleaning bath solutions).
- F011 Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations (except for precious metal heat treating spent cyanide solutions from salt bath pot cleaning).
- F015 Spent cyanide bath solutions from mineral metals recovery operations.
- F028 Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Wastes Nos. F020, F021, F022, F023, F026 and F027.
- X721 Waste automotive crankcase and lubricating oils from automotive

- service and gasoline stations, truck terminals, and garages.
- X722 Waste oil and bottom sludge generated from tank cleanouts from residential/commercial fuel tanks.
- X723 Waste oils and bottom sludge generated by gasoline stations when gasoline and oil tanks are tested, cleaned, or replaced.
- X724 Waste petroleum oil generated when tank trucks or other vehicles or mobile vessels are cleaned, including, but not limited to, oily ballast water from product transport units or boats, barges, ships or other vessels.
- X726 The following used and unused waste oils; metal working oils; turbine lubricating oils; diesel lubricating oils; and quenching oils.
- K029 Waste from the production streams stripper in the production of 1,1,1-trichloroethane.
- K030 Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.
- K052 Tank bottoms (lead) from the petroleum refining industry.
- K095 Distillation bottoms from the production of 1,1,1-trichloroethane.
- K096 Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.
- K100 Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.
- K105 Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.
- K111 Product washwaters from the production of dinitrotoluene via nitration of toluene.

K112

Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.

U001	Acetaldehyde
U002	Acetone
U003	Acetronitrile
U006	Acetyl chloride
U019	Benzene
U029	Methane, bromo-
U031	1-Butanol
U032	Chromic acid, calcium salt
U037	Benzene, chloro-
U043	Ethene, chloro-
U044	Chloroform
U045	Methane, chloro-
U051	Creosote
U052	Cresols and Cresylic acid
U056	Cyclohexane
U057	Cyclohexanone
U070	o-Dichlorobenzene
U071	m-Dichlorobenzene
U072	p-Dichlorobenzene
U074	1,4-Dichloro-2-butene
U075	Dichlorodifluoromethane
U076	Ethane, 1,1-dichloro-
U077	Ethane, 1,2-dichloro-
U078	Ethene, 1,1-dichloro-
U079	Ethene, trans-1, 1-dichloro-
U080	Methylene chloride
U083	1,2-Dichloropropane
U084	1,3-Dichloropropene
U107	Di-n-octylphthalate
U108	1,4-Diethylene dioxide
U112	Acetic acid, ethyl ester
U113	2-Propenoic acid, ethyl ester
U117	Ethyl ether
U121	Methane, trichlorofluoro-
U122	Formaldehyde
U123	Formic acid
U140	Isobutyl alcohol
U151	Mercury
U154	Methyl alcohol
U159	Methyl ethyl ketone
U161	Methyl isobutyl ketone
U162	Methyl methacrylate
U165	Naphthalene
U169	Nitrobenzene
U171	2-Nitropropane
U188	Phenol
U196	Pyridine
U208	1,1,1,2-Tetrachloroethane
U209	1,1,2,2-Tetrachloroethane
U210	Tetrachloroethylene
U211	Carbon tetrachloride

U213	Tetrahydrofuran
U220	Toluene
U223	Toluene diisocyanate
U226	1,1,1-Trichloroethane
U227	1,1,2-Trichloroethane
U228	Trichloroethylene
U238	ethyl carbamate
U239	Xylene

Waste not otherwise listed, hazardous because of the following constituents:

C133	Benzene
C176	Chloroform
C213	Dichlorobenzene, N.O.S.
C215	1,1-Dichloroethane
C216	1,2-Dichloroethane
C217	trans-1,2-Dichloroethane
C220	Dichloromethane
C319	Methyl ethyl ketone (MEK)
C412	Tetrachloroethane, N.O.S.
C413	1,1,1,2-Tetrachloroethane
C414	1,1,2,2-Tetrachloroethane
C415	Tetrachloroethene (Tetrachloroethylene)
C433	Toluene
C440	1,1,1-Trichloroethane
C441	1,1,2-Trichloroethane
C442	Trichloroethene (Trichloroethylene)
C470	Dichlorodifluoromethane
C473	Formic acid
C477	Isobutyl alcohol
C490	Trichloromonofluoromethane
C492	o-Dichlorobenzene
C493	m-Dichlorobenzene
C494	p-Dichlorobenzene
*X900	Chemical Process, Liquids NOS

*This waste code shall be used for non-hazardous wastes provided these wastes are managed as hazardous wastes which includes the use of manifests.

2. The permittee may store the following wastes in containers only:

NJDEP Hazardous
Waste Number

Description

F006

Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon

steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.

- F008 Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process (except for precious metals electroplating plating bath sludges).
- F010 Quenching bath sludge from oil baths from metal heat treating operations where cyanides are used in the process (except for precious metals heat treating quenching bath sludges).
- F019 Wastewater treatment sludges from the chemical conversion coating of aluminum.
- F028 Residues resulting from the incineration or thermal treatment of soil contaminated with EPA Hazardous Wastes Nos. F020, F021, F022, F023, F026 and F027.
- K002 Wastewater treatment sludge from the production of chrome yellow and orange pigments.
- K003 Wastewater treatment sludge from the production of molybdate orange pigments.
- K004 Wastewater treatment sludge from the production of zinc yellow pigments.
- K005 Wastewater treatment sludge from the production of chrome green pigments.
- K006 Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
- K007 Wastewater treatment sludge from the production of iron blue pigments.
- K008 Oven residue from the production of chrome oxide green pigments.

K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.
K049	Slop oil emulsion solids from the petroleum refining industry.
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.
K051	API separator sludge from the petroleum refining industry.
K061	Emission control dust/sludge from the electric furnace production of steel.
K069	Emission control dust/sludge from secondary lead smelting.
K086	Solvent washes and sludges, caustic wastes and sludges or water washes from sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.
K106	Wastewater treatment sludge from the mercury cell process in chlorine production.
U115	Ethylene oxide
U134	Hydrogen fluoride
U144	Lead acetate
U145	Lead phosphate
U146	Lead subacetate
U202	Saccharin and salts
X725	Oil spill cleanup residue which: A. is contaminated beyond saturation; or B. the generator fails to demonstrate that the spill material was not one of the listed hazardous waste oils.
X728	Bottom sludge generated from the processing, blending, and treatment of waste oil in waste oil processing facilities.

The permittee is also authorized to store drums of any NJDEP-numbered solid or liquid hazardous waste from a spill cleanup.

The following codes for non-hazardous wastes provided these wastes are managed as hazardous wastes, including the use of manifests:

NJDEP Hazardous

Waste Number

Description

X825	Contaminated Soil/Sludge
X850	Packed Laboratory Chemicals
X910	Chemical Process, Solids NOS

- c) The permittee is authorized to accept all NJDEP hazardous waste types as small packages of Lab Pack waste except the following:

- 1) Wastes listed in N.J.A.C. 7:26-8.13 and 8.14 (F, X and K numbers).
- 2) Materials for which a satisfactory specification is not available.

Materials such as explosives, shock-sensitive explosives, radioactive and gaseous are considered special handling materials and shall be left at the Generator's facility for direct pick up by the ultimate disposal contractor. The permittee shall not accept any of these special handling materials at the Elizabeth facility.

15 (d)

The permittee is authorized to solidify the following wastes in drums or by using the mechanical solidification process (only during the period of operation as described in Condition 14h) at the facility:

NJDEP Hazardous

Waste Number

Description

D001	ignitable, not otherwise classified
D002	corrosive, not otherwise classified
D004	arsenic by EP test
D005	barium by EP test
D006	cadmium by EP test
D007	chromium by EP test
D008	lead by EP test
D009	mercury by EP test
D010	selenium by EP test
D011	silver by EP test

F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride, and the chlorinated fluorocarbons; and sludges from the recovery of these solvents from degreasing operations.
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- F002 The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-tri-fluoroethane, o-dichlorobenzene, trichlorofluoromethane and the still bottoms from the recovery of these solvents.
- F003 The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; and the still bottoms from the recovery of these solvents.
- F004 The following spent non-halogenated solvents: cresols and cresylic acid, nitrobenzene; and the still bottoms from the recovery of these solvents.
- F005 The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, and the still bottoms from the recovery of these solvents.
- F006 Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
- F007 Spent plating bath solutions from electroplating operations (except for precious metals electroplating spent cyanide plating bath solutions).
- F008 Plating bath sludges from the bottom of plating baths from electroplating operations where cyanides are used in the process (except for precious metals electroplating plating bath sludges).
- F009 Spent stripping and cleaning bath solutions from electroplating operations where cyanides are used in the

process (except for precious metals electroplating spent stripping and cleaning bath solutions).

- F010 Quenching bath sludge from oil baths from metal heat treating operations where cyanides are used in the process (except for precious metals heat treating quenching bath sludges).
- F011 Spent cyanide solutions from salt bath pot cleaning from metal heat treating operations (except for precious metal heat treating spent cyanide solutions from salt bath pot cleaning).
- F019 Wastewater treatment sludges from the chemical conversion coating of aluminum.
- K002 Wastewater treatment sludge from the production of chrome yellow and orange pigments.
- K003 Wastewater treatment sludge from the production of molybdate orange pigments.
- K004 Wastewater treatment sludge from the production of zinc yellow pigments.
- K005 Wastewater treatment sludge from the production of chrome green pigments.
- K006 Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
- K007 Wastewater treatment sludge from the production of iron blue pigments.
- K016 Heavy ends or distillation residues from the production of carbon tetrachloride.
- K048 Dissolved air flotation (DAF) float from the petroleum refining industry.
- K049 Slop oil emulsion solids from the petroleum refining industry.
- K050 Heat exchanger bundle cleaning sludge from the petroleum refining industry.
- K051 API separator sludge from the petroleum refining industry.
- K052 Tank bottoms (leaded) from the petroleum refining industry.

K062	Spent pickle liquor from steel finishing operations.
K086	Solvent washes and sludges, caustic wastes and sludges or water washes from sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.
K095	Distillation bottoms from the production of 1,1,1-trichloroethane.
K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.
U001	Acetaldehyde
U002	Acetone
U003	Acetronitrile
U019	Benzene
U044	Chloroform
U051	Creosote
U052	Cresols and Cresylic acid
U070	o-Dichlorobenzene
U080	Methylene chloride
U112	Acetic acid, ethyl ester
U122	Formaldehyde
U123	Formic acid
U140	Isobutyl alcohol
U154	Methyl alcohol
U159	Methyl ethyl ketone
U161	Methyl isobutyl ketone
U165	Naphthalene
U188	Phenol
U220	Toluene
U226	1,1,1-Trichloroethane
U227	1,1,2-Trichloroethane
U228	Trichloroethylene
U238	Ethyl carbamate
U239	Xylene
X722	Waste oil and bottom sludge generated from tank cleanouts from residential/commercial fuel tanks.
X723	Waste oils and bottom sludge generated by gasoline stations when gasoline and oil tanks are tested, cleaned, or replaced.
X725	Oil spill cleanup residue which: A. is contaminated beyond saturation; or B. the generator fails to demonstrate that the spill material was not one of the listed hazardous waste oils.

X728

Bottom sludge generated from the processing, blending, and treatment of waste oil in waste oil processing facilities.

The following codes for non-hazardous wastes, provided these wastes are managed as hazardous wastes, including the use of manifests:

NJDEP Hazardous
Waste Number

Description

X825	Contaminated Soil/Sludge
X900	Chemical Process, Liquids NOS
X910	Chemical Process, Solids NOS

- e) The permittee may not accept wastes containing PCB's (Polychlorinated Biphenyls) at a concentration greater than 50 parts per million, or greater than a lower concentration limit that may be set by Federal agencies or the Department in the future.
- f) This permit does not authorize the permittee to accept or manage any waste from off-site, or any waste mixtures or residues generated by the permittee through the storage and processing of waste accepted from off-site, in any manner not in conformance with the requirements of the conditions of this permit and the provisions of N.J.A.C. 7:26-1 et seq. for hazardous waste management. All incoming waste shipments accepted by the permittee shall be accompanied by properly completed hazardous waste manifest forms that comply with the requirements of N.J.A.C. 7:26-7.3. All outgoing shipments of wastes initially accepted by the permittee from off-site, and all waste mixtures and residues generated by the permittee through the storage and processing of waste accepted from off-site, shall be to authorized commercial hazardous waste storage, treatment or disposal facilities, and shall be accompanied by properly completed hazardous waste manifest forms that comply with the requirements of N.J.A.C. 7:26-7.3.

For each outgoing shipment of waste initially accepted by the permittee from off-site, and/or of a waste mixture or residues generated by the permittee through the storage and processing of waste accepted from off-site, the manifest shall include the identification of all NJDEP hazardous waste codes assigned by the original off-site generators to the wastes included in the shipment or from which the waste mixture or residue was generated by the permittee, except where the NJDEP hazardous waste code assigned by the original off-site generator was incorrect, and the permittee has resolved the correct code for the waste and has complied with the requirements of N.J.A.C. 7:26-7.6(a)3 and 4, and N.J.A.C. 7:26-12.4(a)17, then the correct hazardous waste code shall be substituted for the incorrect hazardous waste code originally assigned by the off-site generator.

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16) Waste Analysis and Quality Assurance

- (a) Prior to the acceptance of any waste stream (including lab pack wastes) the permittee shall comply with the following:
- (1) The permittee shall obtain a completed "Material Profile Sheet" and PCB Pesticide Waiver Sheet and if necessary a representative pre-shipment sample from the generator for each type of waste. The Material Profile Sheet shall contain, at a minimum, the same information as the sample form provided in the Part B application cited in Condition 13 of this Permit.
 - (2) The Material Profile Sheet and PCB Pesticide Waiver Sheet shall be initially checked for completeness, freedom from obvious mistakes and for valid signatures.
 - (3) a. The Quality Control Manager or his/her designee for the permittee shall recommend a method of treatment/disposal for the material described on the Material Profile Sheet, for any waste stream (other than lab pack waste) according to the following authorized methods: on site distillation and solvent recovery, off site authorized fuel blending, neutralization or other waste water treatment, incineration or land disposal. Prior approval for the material or similar material shall be obtained from facilities offering final treatment/disposal options. The Quality Control Manager or his/her designee for the permittee shall utilize a Waste Approval/Quality Control Worksheet (a sample form is provided in the Part B application cited in Condition 13 of this permit) to document the proposed treatment/disposal method, the final TSD facility and an alternate facility. The waste generator shall be notified of the proposed treatment/disposal method (i.e., incineration, neutralization, recycling, land burial, etc.). If requested by the generator, the permittee will identify the anticipated final treatment/disposal facility.
 - b. The Quality Control Manager for the permittee shall recommend a method of disposal for the material described on the Waste Approval/Quality Control Worksheet for all lab pack waste. The waste generator shall be notified of the disposal method. If requested by the generator, the permittee will identify the anticipated final disposal facility.
- (4) a. If the generator approves the proposed treatment/disposal method for any waste stream (other than lab pack waste), the permittee may contract with the generator for shipment of the waste to the permittee's facility. The contract

must specify the criteria of acceptability of the waste for the proposed treatment/disposal method, including at a minimum, the allowable values of the parameters for which the incoming waste shipment must be analyzed under Condition 16(b)1 below.

- b. If the generator approves the proposed disposal method for lab pack waste, the permittee may contract with the generator for shipment of the waste to the permittee's facility. The contract must specify the criteria of acceptability of the waste including compatibility testing if the Lab Pack waste is opened and the contents poured into drums to be blended or mixed in accordance with 16(b)2 below. The permittee shall require the generator to set aside any unknown chemicals for analytical testing to identify material characteristics and/or components before packaging such chemicals into a Lab Pack drum for transporting to the permittee's Elizabeth facility and to repeat the steps of Condition 16(a) before the permittee contracts with the generator for the shipment of such chemicals to the permittee's facility. If, after a Lab Pack arrives at the Elizabeth facility, it is found to contain any unknown chemicals, the permittee shall follow the steps of Condition 16(c).

- (b) (1) On arrival of each waste shipment (other than lab pack wastes) the permittee shall collect a representative sample for analysis.

Each shipment shall be analyzed according to the proposed method for its disposal, in accordance with the following tests:

All Wastes - ignitability, reactivity, radioactivity, EPA paint filter test, compatibility/solvents and compatibility/water.

Distillation and Solvent Recovery - ignitability, reactivity, radioactivity, miscibility, flash point, percent chlorine, specific gravity, EPA paint filter test, compatibility/solvents and compatibility/water.

Fuel Blending and Incineration - pH, ignitability, reactivity, radioactivity, miscibility, flash point, percent chlorine, specific gravity, BTU heating value, PCB's, EPA paint filter test, compatibility/solvents and compatibility/water.

Neutralization and Waste Water Treatment - pH, ignitability, reactivity, radioactivity, miscibility, flash point, specific gravity, cyanide spot test, sulfide spot test, oxidizer spot test, ammonia, EPA

paint filter test, compatibility/solvents and compatibility/water.

(X) Land Disposal - pH, ignitability, reactivity, radioactivity, miscibility, PCB's, cyanide spot test, sulfide spot test, oxidizer spot test, EPA paint filter test, compatibility/solvents and compatibility/water.

Tests shall be as described in the Part B permit application referenced in Condition 13(a) of this permit.

- (2) Lab Pack chemicals in their original containers and bearing original labels need not be analyzed unless the permittee has reason to believe they are not as represented but shall undergo compatibility testing, if the containers are of wastes listed in Condition 15b and are to be opened and the contents poured into drums containing compatible wastes.

Prior to the blending or mixing of the Lab Pack wastes listed in Condition 15b in containers, the permittee shall perform the following at the facility in accordance with Condition 14 for disposal:

Compatibility will be determined in accordance with EPA publication, 600/2-80-076 A Method For Determining The Compatibility of Hazardous Waste and the ASTM publication, Estimating The Incompatibility of Selected Hazardous Wastes Based on Binary Chemical Reactions which use the components of the wastes in question to determine, by relating to the charts given in the booklet, the types of reactions that could occur if these wastes were mixed together. These guides shall be used only by professional personnel trained or familiar with chemical reactivity and the nature of chemicals.

- (c) Wastes meeting the allowable values in the contract may be accepted by the facility. Wastes not meeting the requirements shall be returned to the generator, or if the waste is of a type which the permittee is authorized to accept under Condition 15 of this permit, may be reanalyzed and a new Material Profile Sheet prepared identifying the material as a new waste and may be accepted by the permittee following a repeat of the steps of Condition 16(a) above. A manifest discrepancy report shall be submitted to the Department in accordance with permit Condition 12(e).
- (d) All analyses of the wastes performed by or for the generator or the permittee shall be performed in accordance with the Quality Assurance/Quality Control methods established by the Department. A copy of the Material Profile Sheet and test results for both the representative pre-shipment sample and the representative sample of the incoming waste shipment for each waste shall be retained at the facility for a minimum of three years. A copy of the Approval/Control Worksheet and

records of all manifests for each waste received and sent for disposal shall also be retained at the facility for a minimum of three years.

- (e) A portion of the representative sample of each incoming waste shipment, adequate for reanalyses, shall also be retained at the facility for a period extending three (3) months beyond the time that the waste shipment of which it is representative, and all products derived from it and by products produced through the processing of it, remain at the permitted facility or until the permittee receives certification from the final T.S.D. facility that the waste has been properly treated or disposed. Material Profile Sheets shall be updated annually by a Technical Representative of Cycle-Chem, Inc. and whenever a significant change in the process that generates the waste becomes known to the permittee.
- (f) The permittee's waste analysis plan provided in the Part B application is hereby approved subject to the following condition. The Department has recently received new guidance from USEPA on the review of the waste analysis plans. This new guidance must be implemented by the Department. Therefore, the permittee's waste analysis plan will be subject to a second review. If, as a result of this second review, the plan is determined deficient, the Department will notify the permittee of the deficiencies and the permittee will be required to make a complete response within sixty (60) days of the date of notification.
- (g) The permittee shall not accept any material for storage or treatment at the facility unless the facility is authorized to handle the material under Condition 15 of this Permit.
- (h) The permittee, if offered hazardous waste of a type which the facility is not authorized to handle or if determined that the representative sample from a bulk or drum shipment yields an analysis of polychlorinated biphenyls (PCB's) greater than fifty (50) ppm, shall:
 - (1) Not accept the waste from the hauler;
 - (2) Instruct the hauler to contact the generator for further instructions;
 - (3) Telephone the generator, and inform the generator that the permittee is not authorized to accept the waste and that the permittee has instructed the hauler to contact the generator for further instructions;
 - (4) Confirm the telephone call to the generator, pursuant to N.J.A.C. 7:26-9.4(c)2iii, with a letter verifying the telephone conversation.
 - (5) Telephone the Department, at (609) 292-8341, and report the unauthorized waste shipment; and

- (6) Confirm the telephone call to the Department, pursuant to N.J.A.C. 7:26-9.4(c)2v with a letter verifying the telephone conversation.

17) Preparedness and Prevention Plan

The permittee shall carry out the preparedness and prevention plan, as outlined in the referenced engineering plans and reports in Condition 13, in order to minimize the possibility of a fire, explosion, or any unplanned release of hazardous wastes or hazardous waste constituents to the air, soil, surface water, or ground water which could threaten the environment or human health. The facility's emergency equipment shall include containment and cleanup supplies necessary to handle spills, fire prevention and fire fighting equipment, employee safety and emergency response equipment, and communication systems. In addition to the facility's preparedness and prevention plan, the permittee shall comply with the following:

- (a) An adequate supply of absorbent compounds must be readily available within the facility to be employed if a spill should occur.
- (b) All diked areas must be maintained free of cracks or gaps that could degrade their impermeability.
- (c) An adequate volume of water to supply hose streams necessary in fighting fires during emergencies, must be available at all times.
- (d) Aisle space at least 30 inches wide must be maintained in all container storage areas to allow unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency.

The emergency equipment shall be tested and maintained as necessary to assure its proper operation in time of emergency.

18) Contingency Plan

- (a) In the event of an emergency, a local alarm system must be activated to alert employees. The Elizabeth Fire Department and Elizabeth Police Department should be notified immediately. The telephone numbers are:

Elizabeth Fire Department:	Dial "0" for Operator
Elizabeth Police Department:	(201) 558-2111

Before assistance arrives, fire fighting equipment listed in Condition 17 should be used to control the emergency.

- (b) If the facility has a discharge, fire, or explosion which could threaten human health or the environment, the following shall be notified immediately:

- (1) Environmental Protection Agency
Oil and Hazardous Materials Section
Raritan Depot, Edison, NJ 08817
Telephone (201) 548-8730
- (2) New Jersey Department of Environmental Protection
Spill Response Unit
Trenton, NJ 08625
Telephone: (609) 292-7172
- (c) The emergency coordinator's notification to either of the above two telephone numbers must include the following information:
 - 1) Name and telephone number of the person reporting;
 - 2) Name and address of the facility;
 - 3) Time and type of incident (discharge, fire or explosion);
 - 4) Name and quantity of material(s) involved, to the extent known;
 - 5) The extent of injuries, if any;
 - 6) The possible hazards to human health, or the environment, outside the facility.
- (d) Semi-annual drills involving all employees and appropriate local authorities shall be conducted to test emergency response capacities at the facility in accordance with the contingency plan and emergency procedures developed pursuant to N.J.A.C. 7:26-9.7.

19) Inspections

The permittee shall comply with the inspections, as outlined in the referenced engineering plans and reports (Condition 13), for equipment malfunction, structural deterioration, operator errors, spills or leakage and discharges that could cause or lead to the release of hazardous waste constituents and adversely affect the environment or threaten human health. Cycle-Chem, Inc. shall conduct the inspection schedule for the equipment listed as below.

(a) Container Storage Area

<u>Activity/Equipment</u>	<u>Inspected for</u>	<u>Frequency</u>
Container placement	30 inch aisle, neat, stable	Daily
Container sealing	all bungs & covers closed	Daily
Container labeling	labels complete and accurate	Daily
Container condition	corrosion, leaks	Daily
Container location by type	located in flam- mable, acid,	Daily

	alkaline section	
Housekeeping	clean, tidy	Daily
Warning signs	legible	Daily
Emergency equipment	unobstructed	Daily
Eye washes and shower stations	steady flow of water	Daily
Alarm systems on distillation process	operability	Daily
Fire exits	unobstructed	Daily
Electrical equipment	unobstructed	Daily

(b) Distillation Area

<u>Activity/Equipment</u>	<u>Inspected for</u>	<u>Frequency</u>
Wall thickness	detect thinning	Annual
Tank condition	leaks, bulges	Daily
Housekeeping	clean, tidy	Daily
Emergency doors	operable and unobstructed	Daily
Dike	cracks	Daily
Base	standing water, cracks	Daily
Pipes	no leaks, supported	Daily
Valves	leaks	Daily
Transfer pumps	seal leaks, functional	Weekly
Instruments	operable	Daily

(c) Tank Storage Area

<u>Activity/Equipment</u>	<u>Inspected for</u>	<u>Frequency</u>
Wall thickness	detect thinning	per Condition 12(f)
Tank condition	leaks, bulges	Daily
Housekeeping	clean, tidy	Daily

Conservation vents	plugging	Weekly
Dike	cracks	Daily
Base	standing water, cracks	Daily
Pipes	no leaks, supported	Daily
Valves	leaks	Daily
Transfer pumps	seal leaks, functional	Daily
Ladder and platforms	structural defects	Weekly
Tank number label	visible	Annual

(d) Security

<u>Activity/Equipment</u>	<u>Inspected for</u>	<u>Frequency</u>
Fence	no gaps, not corroded	Weekly
Gates	functional	Weekly

A written log of all inspections, including copies of the completed inspection checklists as provided in the referenced engineering plans and reports of Condition 13, is to be kept on-site. At a minimum, this log must include the date and time of each inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial actions performed.

20) Security

- a) The permittee shall prevent the unknowing entry, and minimize the possibility for the unauthorized entry, of persons or livestock onto the active portion of the facility.
- b) The permittee shall maintain the existing fence which surrounds the entire outside storage area.
- c) The permittee shall post a sign with the legend, "Danger-Unauthorized Personnel Keep Out", at each entrance to the active portion of the facility, and at other locations, in sufficient numbers to be seen from any approach to this action portion.

21) Personnel Training

- a) Facility personnel shall successfully complete a program of classroom instruction and on-the-job training that teaches them to perform their duties in a way that ensures the

facility's compliance with the requirements of N.J.A.C. 7:26-9.4(g). As described in Part B, an on-going training program shall be provided to meet RCRA and State requirements for new employee training and annual training updates. New employees shall be trained within sixty (60) days of the date of employment.

- b) As detailed in the Part B application, the training program shall be maintained with records and documentation describing the type and amount of both introductory and continuing training that will be given to each person engaged in hazardous waste management at the facility.

22) Financial Requirements

- a) The permittee shall maintain the liability insurance documented to the Department, or obtain and document to the Department other liability insurance, for sudden and accidental occurrences. The insurance shall be maintained in accordance with the requirements of N.J.A.C. 7:26-9.13.
- b) The permittee shall maintain the financial assurance for closure costs documented to the Department or obtain and document to the Department other financial assurance, as specified in N.J.A.C. 7:26-9.10, in order to provide financial assurance for facility closure. These financial mechanisms shall be maintained in accordance with the requirements of N.J.A.C. 7:26-9.10.
- c) The wording of all financial documents (except for the insurance policy itself) that are submitted under 22(a) or 22(b) above must be exactly as specified in N.J.A.C. 7:26-9 (Appendix A).
- d) The permittee must adjust the facility's closure cost estimate for inflation within thirty (30) days after each anniversary of the date on which the first closure cost estimate was prepared. Whenever the current closure cost estimate increases to an amount greater than the amount of the financial mechanism, the permittee, within sixty (60) days after the increase, must either cause the amount of the financial mechanism to be increased so that it at least equals the current closure cost estimate and submit evidence of such increase to the Department, or obtain and document to the Department other financial assurance, as specified in N.J.A.C. 7:26-9.10, to cover the increase.
- e) If the revised closure cost estimate required by Condition 23(e) of this permit yields a closure cost estimate greater than the amount of the current financial mechanism then the permittee shall, following Department approval of the revised closure cost estimate, either adjust the amount of the financial mechanism to be increased so that it at least equals the revised closure cost estimate and submit evidence of such increase to the Department, or obtain and document to the Department other financial assurance, as specified in

N.J.A.C. 7:26-9.10, to cover the increase. Such additional financial assurance, if applicable, shall be documented to the Department prior to the initiation of any of the new hazardous waste storage or treatment operations authorized by this permit.

23) Closure Plan

- (a) The permittee must close the facility in the manner that is stated in the application certified by Paul Fleischmann, dated June 17, 1987.
- (b) The permittee shall keep a copy of the closure plan and all revisions to the plan at the facility until closure is completed.
- (c) The permittee shall amend the closure plan any time changes in operating plans or facility design affect the closure plan or whenever there is a change in the expected year of closure of the facility. The plan must be amended within sixty (60) days of the changes.
- (d) The permittee shall notify the Department at least 180 days prior to the date the permittee expects to begin closure, except in cases where the facility's permit is terminated or if the facility is otherwise ordered by judicial decree or compliance order to cease receiving the wastes or to close. The date when the owner or operator "expects to begin closure" shall be within thirty (30) days after the date on which the owner or operator expects to receive the final volume of wastes.
- (e) The permittee shall submit a revised closure cost estimate for the facility within 60 days of the date of the date this permit becomes effective and shall include the following:
 - (1) The closure cost estimate shall list the maximum capacity of all hazardous waste at the facility not two thirds of the maximum capacity as previously submitted.
 - (2) The closure cost estimate for the maximum capacity of lab pack containers listed in Condition 13 of this permit shall indicate a cost of at least One Hundred Ninety Five Dollars (\$195.00) per drum (plus transportation) for disposal by incineration.
 - (3) The closure cost estimate may include the cost for disposal of hazardous waste in bulk form provided the closure plan includes compatibility testing on this waste and the cost estimate includes a third party cost for the testing and bulking of the waste. A third party cost for the removal/disposal of the drums from which the waste was taken to be bulked shall also be provided.
 - (4) The closure cost estimate shall not incorporate any salvage value that may be realized by the sale of

hazardous waste, facility structures, equipment, land or other facility assets at the time of closure.

- (5) The permittee shall not incorporate a zero cost for hazardous waste that might have economic value in the closure cost estimate.
- (6) The closure cost estimate shall indicate the removal and disposal of all hazardous waste, waste wash waters, etc. and include third party disposal costs.
- (7) The closure cost estimate shall include the residual waste wash waters generated during decontamination at a rate of 10 percent of the total capacity of all the tanks and also the residual generated during the decontamination of the drum storage area at the generation rate of 100 gallons per hour.
- (8) The closure cost estimate shall include the costs for sampling and analysis of the hazardous waste, the waste wash waters from decontamination, etc. and shall be completed by a New Jersey certified testing laboratory.

The closure cost estimate shall be based on the costs to the permittee to hire a third party to close the facility. The third party is a party who is neither a parent nor a subsidiary of the owner or operator.

24) Operating Record

The permittee shall keep a written operating record at the facility in which the information in N.J.A.C. 7:26-9.4(i) shall be recorded. The information should be recorded as it becomes available and maintained until closure of the facility.

25) Plans Available for Inspection

One complete set of all engineering designs and submissions of Condition 13, a narrative description of the operation of the facility, a facility layout drawing, this Hazardous Waste Facility Permit and such other plans that may be required pursuant to this permit shall be kept on-site and shall be available for inspection by representatives of the Department. The following documents shall also be maintained at the facility site:

- a) The Waste Analysis Plan outlined in Condition 16 of this permit in accordance with N.J.A.C. 7:26-9.4(b).
- b) Contingency Plan required by N.J.A.C. 7:26-9.7.
- c) Closure Plan required by N.J.A.C. 7:26-9.8.
- d) Inspection schedule required by N.J.A.C. 7:26-9.4(f).
- e) Personnel training documents and records required by N.J.A.C. 7:26-9.4(g).

- f) Written operating record required by N.J.A.C. 7:26-9.4(1).
- g) Financial documents required by Condition 22 of this permit.
- h) Tank shell thickness reports required by N.J.A.C. 7:26-10.5(b)2.

All amendments, revisions, and modifications to any plan required by this permit shall be submitted to the Bureau of Hazardous Waste Engineering for approval and permit modification, if necessary.

26) Posting of Notice

The notice concerning civil and criminal penalties for illegal disposal of hazardous waste must be conspicuously posted and available for all employees to read.

27) Air Pollution Control and Water Resources

The permittee must obtain all necessary permits and comply with all applicable rules and regulations of the Bureau of Air Pollution Control, Title 7, Chapter 27, and the Division of Water Resources, Title 7, Subtitle D, of the New Jersey Administrative Code before this permit is deemed effective.

28) Permit Limitations

- a) The issue of a permit does not authorize any injury to persons or property or invasion of other private rights or any infringement of applicable Federal, State, or local laws or regulations.
- b) This permit does not constitute the sole source of guidelines to be followed. Any new regulations concerning Water Quality, Air Pollution, Hazardous Waste, or other rules of the Department of Environmental Protection, applicable to the facility shall be complied with at the effective date. New regulations are effective upon publication in the New Jersey Register or as otherwise indicated in the Notice of Adoption in the New Jersey Register.

29) Early Expiration of Permit

If, for any reason, the facility ceases to be operated on a continuous basis and/or ceases to be operated by the owners or operators listed in the disclosure statement submitted by Paul Fleischmann dated September 22, 1986, the permit expires of its own accord and remains ineffective until reissuance by the Department.

30) Construction/Installation Requirements

Upon issue of this permit, the permittee shall comply with the procedures outlined below. Failure to comply with these procedures shall be cause for immediate revocation of this permit.

- (a) The permittee shall construct a concrete corrosive waste storage area with an acid-resistant lining in accordance with the drawings cited in Condition 13(d) of this permit. The construction shall be completed by 270 days from the date of issue of this Permit.

The permittee may not commence storage of hazardous waste in the corrosive waste storage area until the procedures of Condition 30(d) below have been completed, and the Department has approved the construction.

- (b) The permittee shall install a monitoring system and control to prevent overflow of liquid on both Tank A and B of the distillation plant as shown on Drawing PCC-10 cited in Condition 13 of this permit. This installation shall be complete within 90 days from the date of issue of this permit.

The permittee shall certify compliance with this requirement to the Department in accordance with the procedures of Condition 30(d) below.

- note* { (c) The permittee may use a phased approach for the construction/installation of the 12 vertical tanks. The permittee shall install up to 9 vertical tanks of 7,500 gallons capacity and 3 vertical tanks of 10,000 gallons capacity each and a canopy roof over them as well as over the container storage area, all as shown on the drawings referenced in Condition 13(e) of this permit. This installation shall be complete within 2 years of this issue of this permit and shall include the completion of a canopy roof over all of the tanks installed and a canopy roof over the container storage area as referenced above.

The permittee may not commence storage of hazardous waste in any of the vertical hazardous waste storage tanks until the procedures of Condition 30(d) below have been completed, and the Department has approved the construction.

- (d) Within thirty (30) days after completion of each construction/installation specified in Condition 30(a), (b) and (c) above, the permittee shall submit to the Department, by Certified Mail or hand delivery, a letter signed by the permittee and a New Jersey licensed professional engineer stating that the construction/installation has been completed in accordance with the cited drawings. For vertical tanks installed pursuant to Condition 30(c) above, the permittee shall also submit designs of the new drum arrangement which indicates the decrease in volume of containers by the equivalent tank volume.

The Department shall inspect the facility to determine whether or not it is in compliance with the layout and specifications of the design plans set forth in the engineering plans and reports. If within 15 days of the date of submission of a letter pursuant to the paragraph above, the permittee has not received from the Department notice of

intent to inspect, prior inspection is waived and it is understood that the facility meets the design requirements. If the facility is not in compliance with the approved design, a schedule shall be submitted within thirty (30) days of the date of the Department's inspection outlining how the facility will be brought into compliance. The schedule shall be subject to the Department's approval.

31) Product Specifications: Reclaimed Chlorinated Solvents

- (a) Reclaimed chlorinated solvents from the distillation plant shall meet as minimum standards the specifications given below:

Perchloroethylene min 92.0%
Co-solvents max 8.0%

1,1,1 - Trichloroethane min 90.0%
Co-solvents max 10.0%

Trichloroethylene min 90.5%
Co-solvents max 9.5%

Methylene Chloride min 94.5%
Co-solvents max 5.5%

Maximum concentrations of typical contaminants in each of these reclaimed products are as follows:

Water - Max. 0.1%
Minerals Spirits - Max. 2.0%
Emulsifiers - Max. 1.0%
Alcohols - Max 0.3%
Amines - Max. 0.3%
Fluorocarbons - Max. 1.0%

The following proprietary and speciality solvent blends can be reclaimed by the facility, Cyrel (duPont trademark), 90/10 solvent and MCS (mixed chlorinated solvent).

The typical composition for each are as follows:

Cyrel

Perchloroethylene - 70-80%
n-Butyl Alcohol - 20-30%
Water - Max. 0.1%
Dissolved Photopolymers - Max. 0.1%

90/10 Solvent

Perchloroethylene - 88-92%
n-Butyl Alcohol - 8-12%
Water - Max. 0.1%
Dissolved Photopolymers - Max. 0.1%

MCS (Mixed Chlorinated Solvents)

Trichloroethylene - 30-60%
Perchloroethylene - 30-60%
1,1,1 Trichloroethane - 25-50%
Methylene Chloride - 15-25%
Fluorocarbons - 5-10%
Mineral Spirits - Max. 0.2%
Emulsifiers - Max. 0.1%
Alcohols - Max. 0.3%
Amines - Max. 0.3%
Water - Max. 0.1%

- (b) Such reclaimed chlorinated solvents from the distillation plant shall remain hazardous wastes, subject to the conditions of this permit, and all provisions of the New Jersey Hazardous Waste Management Regulations, N.J.A.C. 7:26-1 et seq., until confirmed by analysis to meet the specifications of Condition 31(a) above.

32) Management of Rainwater

Until the canopy roof in Condition 30(c) is constructed and approved by the Department, and all hazardous waste container storage activity has been relocated beneath it, the permittee shall collect rainwater with a vacuum truck, as necessary, to prevent hazardous waste storage containers from contact with accumulated liquids in accordance with N.J.A.C. 7:26-10.4(b)iii, and the permittee shall also regrade the surface of the hazardous waste container storage area, if necessary, to ensure compliance with N.J.A.C. 7:26-10.4(b)iii. Disposal of collected rainwater shall be in accordance with Department regulations.

The permittee shall apply for and obtain any necessary permits from the Department's Division of Water Resources under the New Jersey Pollutant Discharge Elimination System regulations, N.J.A.C. 7:14A-1 et seq., for the future discharge of rainwater runoff from the canopy roof.

DOCUMENT: CYCLECH3
FOLDER: HWEMCB

NOV - 2

Let's protect our earth



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director

Hazardous Waste Operations

John J. Trela, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Lance R. Miller
Deputy Director

Responsible Party Remedial Action

MEMORANDUM

OCT 31 1993

TO: Yacoub E. Yacoub, Acting Chief
Bureau of Metro Enforcement

FROM: Ernest J. Kuhlwein, Jr., Chief ^{EK}
Bureau of Hazardous Waste Engineering

SUBJECT: Final Permit Review of Cycle Chem, Inc.

Please find attached a copy of the Final TSD Facility Permit for the above subject facility.

The Bureau requests the Bureau of Metro Enforcement's (BME) comments regarding the approval or disapproval for issuing this final permit. Please provide comments to the Bureau within ten (10) working days from the date of this memo.

If there are any questions, please contact Jean Adragna at (609) 292-9880.

EP12/lm

DOCUMENT: CYCLE11
FOLDER: SLWMCB

A-4

20-04C

Faxed 11/15/88
JAS

Let's protect our earth



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Acting Director
2 Babcock Place
West Orange, N.J. 07052
201 - 669 - 3960

MEMORANDUM

TO: Ernest Kuhlwein, Chief, BHWE
FROM: J. Sterling, Acting Section Chief JAS
RE: COMMENTS ON FINAL DRAFT PERMIT FOR CYCLE-CHEM INC.
DATE: November 10, 1988

Attached are our comments regarding the draft Final Permit for the above referenced facility.

If there are any questions, please contact Boleslaw Czachor at (201) 669-3960.

JAS:hc

Attachments

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO JEFF STERLING DATE 11/10/88
FROM BOLES LAW PRACTICE
SUBJECT CYCLE CHEM Inc, final permit review
comments.

The basic comment and objection which
arised after reviewing of the copy of draft
permit for the subject facility is that
there is no time limit on ^{storage of} containers.
Current facility operations are indicating
that containers are stored for more than
four years. This practice may cause
a deterioration of integrity of container
and may result in ~~spillage~~ leaking and
spillage of haz. waste.

In my opinion the storage time
should be reasonably limited, such
as it is practiced in case of other
haz. waste facilities.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT
METRO FIELD OFFICE

TELEFAX DATA
TRANSMITTAL SHEET

DOCUMENT SENT TO: Ernest Kuchwein

SENDING ADDRESS: 401 E STATE ST, FIFTH FL, BHW E

DATE _____ NUMBER OF PAGES WITH COVER 3

CONTACT PERSON TO CONFIRM RECEIPT OF DOCUMENT:

NAME: J. STERLING TELEPHONE NUMBER: 201-669-3960

DEP OFFICE: _____

Attachment 4

PERK CHEMICAL COMPANY, INC.
ELIZABETH, N. J.

FACILITY CHARACTERISTICS

The Perk Chemical Company, Inc. (Perk) is located at 217 South First Street in the City of Elizabeth, Union County, N.J. This site is approximately 3/4 mile northeast of Exit 13 of the N.J. Turnpike in the Elizabethport area of the City. The facility is engaged in the transportation, storage, processing, blending and distribution of virgin & waste chemicals. Perk is presently in the RCRA permit application process, and conducts business under Temporary Operating Authority (TOA) as granted by NJDEP.

Perk operates on a 2.03 acre site with a distillation plant, an office/laboratory, and a building foundation surrounded by and adjacent to a paved drum storage area. The facility is bordered on all sides by a contiguous 4-6" concrete curb. This berm was designed to contain rain falling on the site from up to a 25 year storm. There are no storm sewers on the facility grounds inside of this berm. Stormwater from the site is managed by workers sweeping water out from around drums and onto the pavement and then allowing it to evaporate. Additionally, on the north and Third Avenue sides of the facility is a 3.5' concrete floodwall, concrete drainage ditch, and two steel flood gates. The latter system is part of the USCOE Elizabeth River Flood Control Project, and it prevents water from a 140 year flood from outside of the facility getting into the facility. An USCOE approved gate is to be installed at the storm sewer on the corner of South First Street and Third Avenue. If utilized, this drainage system would discharge to the Elizabeth River. Perk also has an approved DPCC/DCR plan (attachment A).

On the paved area of the Perk facility are situated eleven temporary and permanent waste drum storage areas, a waste cartridge/roll-off container area, and a trailer area with three waste and four product tank-trailers, and six box trailers. These areas of segregated waste will be considered individual SWMUs. Waste chemicals handled at the site are mainly spent chlorinated solvents received from dry cleaning companies, and also include corrosives, waste oils, lab pack chemicals, still bottoms, flammable wastes, and spill cleanups which are stored on site.

The primary operations on site are storage of waste chemicals and distillation of spent chlorinated solvents. Waste drums are received, unloaded and inspected in the staging area (location E-4, Grid Map) then segregated according to classification. If a waste is a reclaimable spent chlorinated solvent such as trichloroethylene, tetrachloroethylene, methylene chloride, or 1,1,1 trichloroethane, after storage (loc. F-6) it is transported to the process plant. The mixing vat (loc. E-1) in the process plant is RCRA regulated. Still bottoms and non-reclaimable chlorinated solvents are transported to another segregated drum storage area (loc. F-3). As part of the dry cleaning industry business, cartridges are also received, stacked on pallets, loaded into a container, and await transfer to a disposal facility (loc. F-2).

A-4

A second operation which follows initial drum staging is the mixing/solidification process (loc. D-4) which is reported to occur on a small area of the site covered with polyethylene. Drums are also segregated as flammable waste storage (loc. D-5), corrosives storage (loc. D-7), waste oil storage (loc. B-5), and lab pack chemical storage (loc. B-4). These areas consist of approximately 2,500-3,000 of the drums on site. The drums are stacked three high, two wide, and of varying lengths. They are reportedly checked daily for leaking and other problems. There is also a waste drum area on site known as DEP storage area. Here hazardous waste drums are kept unsegregated, waiting for removal and final disposal (loc. E-6).

The final waste area (loc. B-9) consists of one partially full vacuum tank truck, approximately three oil/water mixture tank trailers, as well as six storage box trailers and three empty tank trailers.

PREVIOUS AND ONGOING DEPARTMENTAL ACTIVITIES

The Perk facility is in the RCRA permit application process, and has submitted the latest revision of the Part B permit dated January, 1986. Presently Perk is operating under the TOA granted by NJDEP. Although various Departmental files record minor violations (attachments B,C,D), no release of hazardous chemicals from the site has been reported to occur.

FINDINGS

File review was unable to document material release. However, the potential for the release of hazardous materials was identified in several locations on site. A major source of release could come from leaking drums or contaminated stormwater infiltrating pavement of questionable integrity and reaching soil and groundwater. A release could also come from the mixing/solidification process. This operation includes a drum to drum transfer of compatible material or of a drying agent with inadequate, if any, control of material release. There is great potential for this to have occurred already since the site was in operation from the early 1960's and was not completely paved until 1982. There is no drainage system on the facility to remove stormwater and leaking material which is contained during wet conditions by a contiguous 4-6" concrete berm.

The present method of managing rainwater on site also contributes to the potential for hazardous material release. Pavement and grading is unsatisfactory, as there are numerous areas where flooding has been evidenced: drums in the northwestern corner of the property have several inches of water staining, the cartridge storage area in the eastern part of the site pools with water, and drum storage areas to the south and west of the building foundation flood as evidenced by water stained drums. The presence of water and the observed leaking drums (three drums in flammable storage area) indicate that the facility's practice of sweeping water around the site to allow for evaporation is not an adequate control measure. This practice could affect integrity of the drums, spread contamination throughout the site, and allow contamination to reach areas of the non-intact pavement and travel to soil and groundwater.

RECOMMENDATIONS

Although no hazardous material release incident has occurred, the condition of the Perk site warrants Remedial Investigation to quantify possible unknown previous releases and to assess future release potential. The RI should address but not be limited to the following points:

1. Soil sampling should be conducted on site to determine if soils have been contaminated due to facility operations in the past. NOTE: The Preliminary Assessment revealed that Perk began operations in the early 1960's, and the facility was not paved until 1980-1982. The Soil & Sediment Analysis Plan approved by BHWE is sufficient for sediment, but should include sampling and analysis of soils below the concrete.
2. The two on site supply wells should be sampled and analyzed using DWM field sampling procedures.

Based on the results of the RI, a Feasibility Study should be performed to determine remediation of the impact on the environment and human population.

The following issues should be addressed under State enforcement and permitting procedure:

1. Pavement should be graded to direct water away from drum storage areas, to repair areas of deteriorating pavements, and to allow stormwater into the concrete drainage ditch.
2. Perk should establish analytical data for stormwater on site to determine if it could be discharged to the POTW or as a point source discharge to the Elizabeth River. Water collected in the concrete drainage ditch could be released through the gate valve, scheduled to be constructed May, 1986.

All future actions taken by USEPA should be integrated into ongoing activities and coordinated with NJDEP.

HS172:lmk

Prepared by:
Janine M. Tonelli
NJDEP DWM/HSMA-BEMSA

ATTACHMENT 5

MEMO TO: NJ DEP, Div. of Env. Quality, Enforcement.

FROM: ELIZABETH

COMPANY NAME: CYCLE Chem. Inc.

COMPANY MAILING ADDRESS:

(formerly Park Chemical Co. Inc.) PLANT I.D. # 40549

217. South First ST.

ELIZABETH, N.J. 07206

PURPOSE: Request for termination of certificates/stack deletions

DATE: 3/15/88

Please terminate/delete the below listed:

N.J. Stack #	Certificate #	Grandfathered	Reason for Deletion
40549-005 (2,000 Gallon TANK A)	045559		Both tanks have not been installed to date and the company has no plans to install them in the future
40549-007 (2,000 Gallon TANK B)	045561		

VEM-040
5/85

NEW JERSEY STATE DEPARTMENT



OFFICE OF ENVIRONMENTAL PROTECTION

RECEIVED MAR 28 1988

RECEIVED

BUREAU OF ENGINEERING & TECHNOLOGY

APPLICATION TO AMEND (TRANSFER OF OWNERSHIP)
PERMIT(S) TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND
CERTIFICATE(S) TO OPERATE CONTROL APPARATUS OR EQUIPMENT

RETURN TO: NJDEP, Bureau of Engineering & Technology
New Source Review Section
CN 027, Trenton, NJ 08625

FOR ASSISTANCE CALL:
(609) 292-6716

SECTION A - To be completed by new owner

1. Full Business Name Cycle Chem, Inc. (formerly Perk Chemical Co. Inc.)
2. Mailing Address P O Box 981, 217 South First Street, Elizabeth, N.J. 07206
3. Division and/or Plant Name Cycle Chem, Inc.
4. Plant Location 217 South First Street, Elizabeth, NJ 07206
5. County Union
6. Nature of Business Solvent Recovery
7. Plant Contact Paul Fleischmann
8. NJ Plant ID # 40549
9. Date Transfer of Ownership Occurred Name change from Perk Chemical Co. Inc. to Cycle Chem Inc. occurred September 21, 1987.
10. Permit/Certificate Numbers to be Transferred 45560, 072544, 073180, 048813

- Enclose a \$50 Fee for each Permit/Certificate to be Transferred -

The information supplied on this application VEM-040, including the data in supplements, is to the best of my knowledge true and correct. The business I represent accepts the rights and responsibilities of the aforementioned permits/certificates.

Paul Fleischmann
Signature of Authorized Officer

March 30, 1988
Date

Paul Fleischmann
Name (print or type)

President
Title

SECTION B - To be completed by the selling business

As an authorized officer of the selling business, I release the ownership of the aforementioned permits and certificates.

Not Applicable

Full Business Name

Signature of Authorized Officer

Date

Name (print or type)

Title

FOR DEP OFFICE USE ONLY

LOG NO.

2-88-0562

FEE

200.00

PAID

200

A-5

thru

Stephens



MRO

RECEIVED

JAN 25 10 04 AM '88

DIVISION OF ENVIRONMENTAL PROTECTION

BUREAU OF ENGINEERING & TECHNOLOGY
APPLICATION TO AMEND (TRANSFER OF OWNERSHIP)
PERMIT(S) TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND
CERTIFICATE(S) TO OPERATE CONTROL APPARATUS OR EQUIPMENT

RETURN TO: NJDEP, Bureau of Engineering & Technology
New Source Review Section
CN 027, Trenton, NJ 08625

FOR ASSISTANCE CALL:
(609) 292-6716

SECTION A — To be completed by new owner

1. Full Business Name CycleChem, Inc.
2. Mailing Address 217 South First Street Elizabeth, N.J. 07206
3. Division and/or Plant Name same
4. Plant Location 217 South First Street Elizabeth, N.J. 07206
5. County Union
6. Nature of Business Recycling of chlorinated solvents
7. Plant Contact Matteo Portuesi
8. NJ Plant ID # 40549
9. Date Change of Name Occurred Sept. 21, 1987
10. Permit/Certificate Numbers 072544, 073180

— Enclose a \$50 Fee for each Permit/Certificate to be Transferred —

The information supplied on this application VEM-040, including the data in supplements, is to the best of my knowledge true and correct. The business I represent accepts the rights and responsibilities of the aforementioned permits/certificates.

Laurie A. Cooper
Signature of Authorized Officer
Laurie A. Cooper
Name (print or type)

1/11/88
Date
Technical Manager
Title

SECTION B — To be completed by the selling business

As an authorized officer of the selling business, I release the ownership of the aforementioned permits and certificates.

Perck Chemical Co
Full Business Name

Signature of Authorized Officer

Name (print or type)

Date

Title

FOR DEP OFFICE USE ONLY

LOG NO. 2-88-0345 and 2-88-0346
FEE 100.00
PAID 100
William Stephens
W 8
FVAH
2-708

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
BUREAU OF ENFORCEMENT OPERATIONS

PLANT ID #	INSPECTOR ASSIGNED
40549	400

FIELD INVESTIGATION ASSIGNMENT REPORT

DATE ASSIGNED	DATE DUE
01-11-88	3-11-88
DATE COMPLETED	COUNTY
3-15-88	Union

COMPANY Cycle Chem, Inc. (formerly Perck Chemical Co. Inc.) TYPE OF ASSIGNMENT
 LOCATION 217 SOUTH FIRST ST., ELIZABETH, 07206 ☐ COMPLAINT ☒ APEDS
 CDS CLASS: A1 ☐ A2 ☐ B ☐ NSPS ☐ NESHAPS ☐ PSD ☐ ORDER FOLLOWUP
 AIR GRANT (105): ☐ Yes ☐ No PLLT: PT ☐ S2 ☐ CO ☐ N2 ☐ VO ☐ OTHER (BY CODE) ☐

COMPLAINANT NAME _____ PHONE # _____
 COMPLAINANT ADDRESS _____ RECORDED BY _____
 DATE RECEIVED _____ COMPLAINT DETAILS _____
 TIME RECEIVED _____

PLANT CONTACT MATEO POURTESI
 TITLE PLANT MANAGER
 ARRIVAL TIME AT PLANT 2:20 PM
 TOTAL ASSIGNMENT TIME 75
 TOTAL STACKS INSPECTED 5
 TOTAL SOURCES INSPECTED 5
 DEQ-012 COMPLETED FOR SUBCHAPTERS _____

SUBCHAPTER	# INSP
8	7
16	3
17	2
04	1
09	1

COMPLAINT: TYPE _____
 SUB 5 SOP FOLLOWED: ☐
 TIME AT COMPLAINANT _____
 VERIFIED: ☐ Yes ☐ No
 GIVE DETAILS BELOW
 VIOLATION FOLLOWUP INSPECTION
 VIOLATION LOG # _____
 ORDER DATED _____
 SUBCHAPTER VIOLATED _____
 COMPLIANCE ACHIEVED ☐ Yes ☐ No
 GIVE DETAILS BELOW

TYPE SAMPLE COLLECTED _____
 # OF SAMPLES COLLECTED _____
 COMMENTS (BY CODE) 001 013
 DETAILS OF INSPECTION _____

see APEDS forms (enclosed)

INSPECTOR'S SIGNATURE
Frank Peterson
 TITLE: Air Pollution Inspector
 SUPERVISOR'S REVIEW
 INITIALS: BP DATE: 3-17-88

Emissions with Control Determinations

On the basis of 180 gallons per hour (0.4 CFM) of liquid flowing into the 18" diameter water separator, the assumption is made that up to 0.4 CFM of air is displaced. (This represents the most conservative case since little, if any air is displaced in reality, the condensate displaces liquid which flows out of the separator)

Based on the partial pressure of the solvent present in the 0.4 CFM displacement, the following maximum emission rates have been calculated:

	Vol. %	lb/hr
Perchloroethylene	2	0.2
Trichloroethylene	8	0.6
1,1,1 Trichloroethane	12.5	1
Methylene Chloride	33	2

Note: These solvents are not distilled together, but as individual batches.

Description of Air Pollution Control System for Tanks

System consists of an activated carbon filter in series with a conservation vent. The activated carbon filter will be a Calgon Ventsorb or equivalent utilizing 150 pounds of BPL Type 4 x 10 mesh vapor phase granular activated carbon (see attached literature). The conservation vent will be a 2-inch Protectoseal Company Series 8540 or equivalent (see attached literature).

The tanks are located out-of-doors under ambient conditions. They will be painted white. Maximum emission rate while tank is filling is 10 CFM while the tank is being filled at the rate of 75 gpm. Based on the partial pressure of perchloroethylene, the volume percent of perchloroethylene is 1.9 percent. Hence the maximum emission rate without control is 5 pounds per hour. With control, the maximum emission rate will be less than 0.05 pounds per hour. This is based on a minimum efficiency of the Ventsorb of 99 percent as indicated by the manufacturer. Normal breathing of the tank will be much less, since the pressure drop through the Ventsorb is approximately 1/4 ounce/sq.inch and the conservation vent mounted on the ventsorb will be set in excess of this.

The life of the Ventsorb has been determined to be 10 hours while filling. Since filling occurs during 12 hours per year and since some of the solvent adsorbed by the carbon will be returned to the tank as it is emptied, it is estimated that the carbon will have to be replaced once a year (or after four complete fillings of the tank). The spent carbon will be processed in the on-site distillation plant for reclamation of the solvent.

ATTACHMENT

Let's protect our earth



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
CN 027, TRENTON, NJ 08625



ORDER

TO: Rock Chemical Company, Inc.
217 South First Street
Elizabeth, New Jersey 07206
Ray Rothchild, President

Contact/Phone: 201-355-5800
Violation Occurred On
Permittee Known As:

217 South First Street, Elizabeth
City, Lot 864, Block 2, Union
County, New Jersey, ID #40549

The New Jersey Department of Environmental Protection has determined by investigation(s) made pursuant to the provisions of N.J.S.A. 26:2C-1 that on June 23, 1985, you did violate the New Jersey Administrative Code, Air Pollution Control, Title 7, Chapter 27, Subchapter and Section(s) as follows:

- 17.31(a) - The investigation disclosed TVOS (perchloroethylene), listed in Table 1, being emitted from a source operation, storage tank or transfer operation into the outdoor atmosphere without the equipment and/or operation registered with the Department.
- 17.31(b) - The investigation disclosed TVOS (trichloroethylene), listed in Table 1, being emitted from a source operation, storage tank or transfer operation into the outdoor atmosphere without the equipment and/or operation registered with the Department.


YOU ARE HEREBY ORDERED, to cease violation of said Subchapter and Section(s) on the premises owned, leased, operated, or maintained by you on or before August 13, 1985.

Under the provisions of N.J.S.A. 26:2C-14.1 you are entitled to an administrative hearing if aggrieved by this Order. If aggrieved, you must make written application to the Department within 20 days from receipt of this Order.

Should you have any questions, contact Metropolitan Regional Office,
(201)648-2073.

Refer to Log #A850290

Dated: June 12, 1985


Ernest A. Mancini, Assistant Director
Enforcement Element

Program: Metropolitan Regional Office
Elizabeth City Health Dept.

CERTIFIED MAIL

Let's protect our earth



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
CN 027 TRENTON, NJ 08625



ORDER

TO: Park Chemical Company, Inc.
217 South First Street
Elizabeth, New Jersey 07206
Ray Rothschild, President

Contact/Phone: 201-355-5800
Violation Occurred On
Premises Known As:

217 South First Street, Elizabeth
City, Lot 864, Block 2, Union
County, New Jersey, ID #40549

The New Jersey Department of Environmental Protection has determined by investigation(s) made pursuant to the provisions of N.J.S.A. 26:2C-1 that on January 23, 1985, you did violate the New Jersey Administrative Code, Air Pollution Control, Title 7, Chapter 27, Subchapter and Section(s) as follows:

- 17.3(a) - The investigation disclosed TVOS (perchloroethylene), listed in Table I, being emitted from a source operation, storage tank or transfer operation into the outdoor atmosphere without the equipment and/or operation registered with the Department.
- 17.3(b) - The investigation disclosed TVOS (trichloroethylene), listed in Table I, being emitted from a source operation, storage tank or transfer operation into the outdoor atmosphere without the equipment and/or operation registered with the Department.


YOU ARE HEREBY ORDERED, to cease violation of said Subchapter and Section(s) on the premises owned, leased, operated, or maintained by you on or before August 12, 1985.

Under the provisions of N.J.S.A. 26:2C-14.1 you are entitled to an administrative hearing if aggrieved by this Order. If aggrieved, you must make written application to the Department within 20 days from receipt of this Order.

Should you have any questions, contact Metropolitan Regional Office,
(201)648-2073.

Refer to Log #A850290

Dated: June 12, 1985


Ernest A. Mancini, Assistant Director
Enforcement Element

Program: Metropolitan Regional Office
Elizabeth City Health Dept.

CERTIFIED MAIL

A-5



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
CN 027, TRENTON, NJ 08625



ORDER

TO: Park Chemical Company, Inc.
217 South First Street
Elizabeth, New Jersey 07206
Ray Rothschild, President

Contact/Phone: 201-355-5800
Violation Occurred On
Premises Known As:

217 South First Street, Elizabeth
City, Lot 864, Block 2, Union
County, New Jersey, ID #40549

The New Jersey Department of Environmental Protection has determined by investigation(s) made pursuant to the provisions of N.J.S.A. 26:2C-1 that on January 23, 1985, you did violate the New Jersey Administrative Code, Air Pollution Control, Title 7, Chapter 27, Subchapter and Section(s) as follows:

- 8.3(a) - The investigation disclosed that a 15,000 gallon VOS storage tank was constructed, installed or altered on the premises identified above without first having obtained a "Permit to Construct, Install or Alter Control Apparatus or Equipment" from the Department.

YOU ARE HEREBY ORDERED, to cease violation of said Subchapter and Section(s) on the premises owned, leased, operated, or maintained by you on or before August 12, 1985.

Under the provisions of N.J.S.A. 26:2C-14.1 you are entitled to an administrative hearing if aggrieved by this Order. If aggrieved, you must make written application to the Department within 20 days from receipt of this Order.

Should you have any questions, contact Metropolitan Regional Office,
(201) 648-2073.

Refer to Log #A850291

Dated: June 12, 1985

Ernest A. Mancini, Assistant Director
Enforcement Element

Program: Metropolitan Regional Office
Elizabeth City Health Dept.

CERTIFIED MAIL



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF ENVIRONMENTAL QUALITY
JOHN FITCH PLAZA, P. O. BOX 2807, TRENTON, N. J. 08625

ORDER

To: Perk Chemical Co., Inc.
David E. Yankowitz, Registered Agent
134 Evergreen Place
East Orange, New Jersey 07018

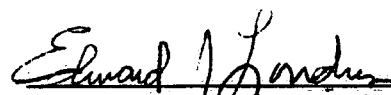
Re: N.J.A.C. 7:27- 16.2(h)
Plant Identification No. 40549
Violation Occurred on Premises
Known As:
217 South First Street, Account
#2-864, Elizabeth City, Union
County, New Jersey

WHEREAS, the State Department of Environmental Protection has determined by investigation(s) or inspection(s) made pursuant to the Provisions of the New Jersey Air Pollution Control Act that on May 21, 1980 you did violate Title 7, Chapter 27, Subchapter 16, Section 16.2(h), of the New Jersey Administrative Code.

The investigation(s) discloses that a delivery vessel was used for the storage of VOS (perchloroethylene) for more than one month at the premises identified above.

NOW, THEREFORE, YOU ARE HEREBY ORDERED, to cease violation of said Subchapter on the premises owned, leased, operated or maintained by you on or before September 25, 1980.

Dated: July 25, 1980


Edward J. Londres, Assistant Director
Enforcement Branch

cc: Local District Elizabeth City
Field Office Metro

CERTIFIED MAIL

DEC-047

APC STACK LOG

PLANT I.D. 40549

APEDS USE ONLY

7/14/83

Re: Park Chemical Co. Inc.
Elizabeth, N. J.
I.D. #0549

Stack log lists Stacks 1-8, all on certs.

Stack #1 - not on computer, no cert.
on file at Metro or in Trenton.
Equipment is in existence & operating.
Tom Micari checking.

✓ Stack #2 - OK

Stacks #3 and #4 - Deleted (scrapped)

✓ Stacks #5 and #7 - certificates issued
on permit applications; equipment
has not been installed, therefore
cannot be inspected.

✓ Stack #6 - OK

Stack #8 - OK

L. Beck

A-5

[illegible]

PLANT INSPECTION REPORT FORM:

Company Name PERK CHEMICAL CO. I.D.# 40549 Month 1
 Location 217 S. FIRST ST. City ELIZABETH
 Date of Inspection 1/23/85 Time 14 Inspector TYNAN # 090
 Person(s) Interviewed 1/24 1235 RAY ROSENCHILD (PRES)
 Title(s) DAVE ROSENBERG (CHIEF CHECKIST)

[illegible]

Additional Comments and Recommendations. NS #2 IS 12500 GAL. STORAGE
C/B OF TUBS. TANK HAS ONLY WHITE PAINT. BOTTOM FIL. & CONS. VENT.
EQUIPMENT DOESN'T MEET STATE OF THE ART.

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM
BUREAU OF ENGINEERING AND TECHNOLOGY

All Correspondence must indicate your DEP PLANT ID NUMBER

Permit/Certificate Number 042727

DEP PLANT ID 40549

(Mailing Address)

PERK CHEMICAL CO., INC.
217 SOUTH FIRST ST.
ELIZABETH NJ 07206

(Plant Location)

217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment

N.J. Stack No. 002

Original Approval 04/30/79

TRI TANK STORES TRICHLOROETHYLEN

No. of Stacks 001

Effective 04/30/79

No. of Sources 01

Expiration 04/30/89

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT (5 YEAR RENEWAL)

THIS (5 YEAR RENEWAL) CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL OTHER PROVISIONS OF TITLE 7, CHAPTER 27, OF THE NEW JERSEY ADMINISTRATIVE CODE.

YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION ABATEMENT FACILITY. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THIS SECTION.

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE FIELD OFFICE. (SEE OTHER SIDE).

THIS DOCUMENT MUST BE READILY AVAILABLE FOR INSPECTION AT THE PLANT.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027
Trenton, New Jersey 08625

Approved by: _____

Supervisor
New Source Review Section

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number

072544

APC PLANT ID 40549

(Mailing Address)

CYCLE CHEM. INC.
217 SOUTH FIRST STREET
ELIZABETH NJ 07208

(Plant Location)

CYCLE CHEM. INC.
217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment TRI TANK (12000 GAL.)

N.J. Stack No. 002

No. of Stacks 001

No. of Sources 01

Approval 07/12/85

Effective 10/10/85

Expiration 12/28/92

PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND
CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT
* AMENDMENT *

THIS PERMIT AND CERTIFICATE HAS BEEN AMENDED TO
REFLECT YOUR REQUEST FOR A TRANSFER OF OWNERSHIP.

IT IS NOW YOUR RESPONSIBILITY TO OPERATE THIS EQUIPMENT
IN ACCORDANCE WITH THE CONDITIONS OF THE APPROVED
PERMIT AND CERTIFICATE AS PER N.J.A.C. 7:27-8.3(E).

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), THIS PERMIT AND CERTIFICATE
MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

3 NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number 073180

APC PLANT ID 40549

(Mailing Address)

PERK CHEMICAL CO., INC.
217 SOUTH FIRST ST.
ELIZABETH NJ 07206

(Plant Location)

217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment 15000 GALLON STAINLESS TANK

N.J. Stack No. 003

No. of Stacks 001

Approval 09/20/85

Effective 12/19/85

No. of Sources 01

Expiration 12/06/92

* CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT *

* FIVE YEAR *

THIS FIVE YEAR CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL PROVISIONS OF THE NEW JERSEY ADMINISTRATIVE CODE, TITLE 7, CHAPTER 27.

IN ACCORDANCE WITH N.J.S.A. 54:4-3.56 TO 3.58, YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION CONTROL DEVICE. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THE BUREAU OF NEW SOURCE REVIEW. (SEE OTHER SIDE)

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE REGIONAL OFFICE. (SEE OTHER SIDE)

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), THIS PERMIT AND CERTIFICATE MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
EN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number

073150

APC PLANT ID 40549

(Mailing Address)

CYCLE CHEM, INC.
217 SOUTH FIRST STREET
ELIZABETH NJ 07206

(Plant Location)

CYCLE CHEM INC.
217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment 15000 GALLON STAINLESS TANK

N.J. Stack No. 003

No. of Stacks 001

Approval 09/20/85

Effective 12/19/85

No. of Sources 01

Expiration 12/08/92

PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND
CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT
* AMENDMENT *

THIS PERMIT AND CERTIFICATE HAS BEEN AMENDED TO
REFLECT YOUR REQUEST FOR A TRANSFER OF OWNERSHIP.

IT IS NOW YOUR RESPONSIBILITY TO OPERATE THIS EQUIPMENT
IN ACCORDANCE WITH THE CONDITIONS OF THE APPROVED
PERMIT AND CERTIFICATE AS PER N.J.A.C. 7:27-8.3(E).

IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), THIS PERMIT AND CERTIFICATE
MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

Department of Environmental Protection
Division of Environmental Quality
6027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

PRO - CITY OF ELIZABETH
DEPT. OF HEALTH, WELFARE AND HUMAN SERVICES

A-5

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM
BUREAU OF ENGINEERING AND TECHNOLOGY

All Correspondence must indicate your DEP PLANT ID NUMBER

Permit/Certificate Number 045229

DEP PLANT ID 40549

(Mailing Address)

PERK CHEMICAL CO., INC.
217 SOUTH FIRST ST.
ELIZABETH NJ 07208

(Plant Location)

217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment 12000 GALLON TANK A
N.J. Stack No. 005 No. of Stacks 001
Original Approval 04/12/90 Effective 04/12/90

No. of Sources 01
Expiration 04/12/90

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT (5 YEAR RENEWAL)

THIS (5 YEAR RENEWAL) CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 100, P.L. 1967 (N.J.S.A. 26:26-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL OTHER PROVISIONS OF TITLE 7, CHAPTER 27, OF THE NEW JERSEY ADMINISTRATIVE CODE.

YOU MAY BE ENTITLED TO AN EXEMPTION OF TAXATION IF YOUR EQUIPMENT IS TAXED AND IS CONSIDERED TO BE AN AIR POLLUTION ABATEMENT FACILITY. A TAX EXEMPTION APPLICATION MAY BE OBTAINED FROM THIS SECTION.

IF IT IS NECESSARY TO AMEND YOUR EMERGENCY STANDBY PLANS, PLEASE CONSULT WITH THE APPROPRIATE FIELD OFFICE. (SEE OTHER SIDE).

THIS DOCUMENT MUST BE READILY AVAILABLE FOR INSPECTION AT THE PLANT.

Approved by: _____

Supervisor
New Source Review Section

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM
BUREAU OF ENGINEERING AND TECHNOLOGY

All Correspondence must indicate your DEP PLANT ID NUMBER

Permit/Certificate Number 045559

DEP PLANT ID 40549

(Mailing Address)

PERK CHEMICAL CO., INC.
217 SOUTH FIRST ST.
ELIZABETH NJ 07206

(Plant Location)

217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment 12000 GALLON TANK A

N.J. Stack No. 005

No. of Stacks 001

No. of Sources 01

Original Approval 04/12/80

Effective 04/12/80

Expiration 04/12/90

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT (5 YEAR RENEWAL)

THIS (5 YEAR RENEWAL) CERTIFICATE IS BEING ISSUED UNDER THE AUTHORITY OF CHAPTER 106, P.L. 1967 (N.J.S.A.26:20-9.2). THE POSSESSION OF THIS DOCUMENT DOES NOT RELIEVE YOU FROM THE OBLIGATION OF COMPLYING WITH ALL OTHER PROVISIONS OF TITLE 7, CHAPTER 27, OF THE NEW JERSEY ADMINISTRATIVE CODE.

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THIS DOCUMENT MUST BE READILY AVAILABLE FOR INSPECTION AT THE PLANT.

Approved by:

William F. Hart

Supervisor
New Source Review Section

A5

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM
BUREAU OF ENGINEERING AND TECHNOLOGY

All Correspondence must indicate your DEP PLANT ID NUMBER

Permit/Certificate Number 040500

DEP PLANT ID 40549

(Mailing Address)

PERK CHEMICAL CO., INC.
217 SOUTH FIRST ST.
ELIZABETH NJ 07208

(Plant Location)

217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment CONDENSATE LINE

N.J. Stack No. 006

No. of Stacks 001

No. of Sources 01

Original Approval 04/12/90

Effective 04/12/90

Expiration 04/12/90

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT (5 YEAR RENEWAL)

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THIS DOCUMENT MUST BE READILY AVAILABLE FOR INSPECTION AT THE PLANT.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027
Trenton, New Jersey 08625

Approved by: _____

Supervisor
New Source Review Section

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number

045500

APC PLANT ID

40549

(Mailing Address)

CYCLE CHEM, INC.
217 SOUTH FIRST STREET
ELIZABETH NJ 07206

(Plant Location)

CYCLE CHEM INC.
217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment

CONDENSATE LINE

N.J. Stack No. 006

No. of Stacks 001

No. of Sources 01

Approval 04/12/80

Effective 04/12/80

Expiration 04/12/90

PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND
CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

* AMENDMENT *

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IN ACCORDANCE WITH THE CONDITIONS OF THE APPROVED
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IN ACCORDANCE WITH N.J.A.C. 7:27-8.3(D), THIS PERMIT AND CERTIFICATE
MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
EN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM
BUREAU OF ENGINEERING AND TECHNOLOGY

All Correspondence must indicate your DEP PLANT ID NUMBER

Permit/Certificate Number 045561

DEP PLANT ID 40549

(Mailing Address)

(Plant Location)

PERK CHEMICAL CO., INC.
217 SOUTH FIRST ST.
ELIZABETH NJ 07206

217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment

12000 GALLON TANK B

N.J. Stack No. 007

No. of Stacks 001

No. of Sources 01

Original Approval 04/02/80

Effective 04/02/80

Expiration 04/02/90

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT (5 YEAR RENEWAL)

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THIS DOCUMENT MUST BE READILY AVAILABLE FOR INSPECTION AT THE PLANT.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027
Trenton, New Jersey 08625

Approved by: _____

Supervisor
New Source Review Section

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM
BUREAU OF ENGINEERING AND TECHNOLOGY

All Correspondence must indicate your APC PLANT ID NUMBER

Permit/Certificate Number 048013

APC PLANT ID 40549

(Mailing Address)

(Plant Location)

PERK CHEMICAL CO., INC.
217 SOUTH FIRST ST.
ELIZABETH NJ 07208

217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment
N.J. Stack No. 008
Original Approval 03/10/81

STEAM BOILER STACK
No. of Stacks 001
Effective 03/10/81

No. of Sources 01
Expiration 03/09/91

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT (5 YEAR RENEWAL)

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THIS DOCUMENT MUST BE READILY AVAILABLE FOR INSPECTION AT THE PLANT.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027
Trenton, New Jersey 08625

Approved by: _____
Supervisor
New Source Review Section

CITY OF ELIZABETH
DEPT. OF HEALTH, WELFARE AND HOUSING

A-5

04/22/86-12

NEW JERSEY STATE DEPARTMENT



OF ENVIRONMENTAL PROTECTION

DIVISION OF ENVIRONMENTAL QUALITY
AIR POLLUTION CONTROL PROGRAM

All Correspondence must indicate your APC PLANT ID NUMBER

Certificate Number

040813

APC PLANT ID 40849

(Mailing Address)

CYCLE CHEM, INC.
217 SOUTH FIRST STREET
ELIZABETH NJ 07206

(Plant Location)

CYCLE CHEM INC.
217 SOUTH FIRST ST
ELIZABETH

Applicant's Designation of Equipment STEAM BOILER STACK

N.J. Stack No. 008

No. of Stacks 001

No. of Sources 01

Approval 03/10/81

Effective 03/10/81

Expiration 03/09/91

PERMIT TO CONSTRUCT, INSTALL OR ALTER CONTROL APPARATUS OR EQUIPMENT
AND

CERTIFICATE TO OPERATE CONTROL APPARATUS OR EQUIPMENT

• AMENDMENT •

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MUST BE READILY AVAILABLE FOR INSPECTION ON THE OPERATING PREMISES.

N.J. Department of Environmental Protection
Division of Environmental Quality
CN-027, 401 East State Street
Trenton, New Jersey 08625

Approved by: _____

ATTACHMENT

Description of the Air Pollution Control System for the Solvent Distillation System

The proposed replacement still kettle is a monel clad jacketed vessel with an agitator (sketch attached). It will replace an existing kettle which due to wear is in need of replacement. The still kettle is used to reclaim spent solvents i.e. perchloroethylene, trichloroethylene, 1,1,1 trichloroethane and methylene chloride. These solvents are not distilled as mixtures, but as individual solvents.

Solvents are distilled in 2000 gallon batches on a 10 hour per day operating basis. Typically 90 percent of the waste solvent charged to the kettle is reclaimed product (condensate). The balance, 10 percent, remains in the kettle and is pumped out as still bottoms. This material consists of dirt, greases, oils and water. The vapor generated from the kettle travels through an 8 inch diameter vapor line to the primary condenser. The primary condenser has 125 square feet of cooling surface, the cooling medium is 60°F water from an on-site well. Condensate from the primary condenser is collected in the 2" condensate line. Any vapors remaining, travel to the two secondary condensers. The total cooling surface of the secondary condensers is also 125 square feet. All the condenser output goes into the 2 inch condensate line. 90 gallons per minute of cooling water is utilized as the cooling medium. The inlet water temperature is 60° F and the outlet water temperature is 75°F. Due to the substantial extra capacity of the condensers, the condensate is also discharged at 75°F.

The 2 inch condensate line travels horizontally to a 90 degree elbow which changes the direction of flow to vertically downward into an 18 inch diameter water separator. The condensate line will discharge below the liquid level in the water separator. Hence the condensate is introduced below the water seal which is present on the separator.

Because the condensers and cooling water have substantial excess capacity as shown in the calculations included with this application, and since the system is a closed system with the condensate discharging into a water separator below the surface, the emissions are very low. The total emissions are estimated at less than 1 pound per hour.

Startup and Shutdown Procedure

Cooling water is circulated through the condensers prior to charging and startup of the still. This ensures that vapors generated through filling are condensed and reclaimed. In addition, cooling water continues circulating after shutdown of the steam boiler and while cooling of the kettle continues. No condenser bypasses exist.

Description of Air Pollution Control System for "TRI" Tank

System consists of an activated carbon filter in series with a conservation vent. The activated carbon filter will be a Calgon Ventsorb or equivalent utilizing 150 pounds of BPL Type 4 x 10 mesh vapor phase granular activated carbon (see attached literature). The conservation vent will be a 2-inch Protectoseal Company Series 18540 or equivalent (see attached literature).

The tanks are located out-of-doors under ambient conditions. They will be painted white. Maximum emission rate while tank is filling is 10 CFM while the tank is being filled at the rate of 75gpm. Based on partial pressure of Trichloroethylene, the volume percent of trichloroethylene is 7.7 percent. The maximum emission rate without control is 12.8 pounds per hour. With control, the maximum emission rate will be less than 0.6 pounds per hour based on a minimum efficiency of the Ventsorb of 95 percent. When the tank is utilized for storage of Perchloroethylene (Tetrachloroethylene) the volume percent of Perchloroethylene is 1.9 percent. The maximum emission rate without control is 5 pounds per hour. With control, the maximum emission rate will be less than 0.05 pounds per hour based on a minimum efficiency of the carbon filter of 99 percent, as indicated by the manufacturer. Normal breathing of the tank will be much less, since the pressure drop through the Ventsorb is approximately 1/4 ounce/sq.inch and the conservation vent mount on the ventsorb will be set in excess of this.

The life of the Ventsorb has been determined to be 10 hours while filling. Since filling occurs during 12 hours per year and since some of the solvent adsorbed by the carbon will be returned to the tank as it is emptied, it is estimated that the carbon will have to be replaced once a year (or after four complete fillings of the tank). The spent carbon may be processed in the on-site distillation plant for reclamation of the solvent.

2000 Gallon Capacity Agitated Mixing and Treatment Vat

This unit receives apent solvents received in drums and bulk. The vat is filled once per day at the rate of 20 gallons per minute and serves to charge a distillation kettle for reclamation of the solvents. Filling of the unit takes less than 2 hours per day, and during this time is when emissions may be expected. Presently, the vat is open top, but constantly has a water layer on top of the solvent during operation thus providing an air seal. Hence, during operation evaporative losses are negligible. A steel top is to be installed on the vat to further protect against evaporation. A hinged lid will be provided on one side to be open only while filling. During filling from bulk tanks, the hose is introduced below the liquid surface to minimize evaporative loss.

In the event that no water seal is present, at the rate of 20 gallons per minute (160 cubic feet per minute) based on the partial pressures of the individual solvents, the following maximum emission rates have been calculated:

	Volume %	lb/hr.
Tetrachloroethylene	1.9	1.0
Trichloroethylene	7.7	3.4

Note that these rates are the maximum only when filling the vat in the event that no water seal is present. By installation of a steel cover and maintaining a water seal at all times, during actual operation of the vat, emissions will be negligible.

Note that at all times, the solvents are processed separately and not as mixtures. Each of the above solvents is processed approximately 25 percent of the total annual operating hours.

350 Gallon Stainless Steel Holding Tank

The holding tank receives reclaimed solvent by gravity flow at the rate of up to 180 gallons per hour from water separator. The holding tank acts as a secondary water separator and maintains a water layer which acts as a seal at all times. A steel lid with a hinged inspection port will be installed on the tank to minimize evaporative loss.

Assuming that no water seal or lid is present, the maximum emission rates have been calculated on the basis of solvent partial pressures as follows:

	Volume %	lb/hr.
Tetrachloroethylene	1.9	0.15
Trichloroethylene	7.7	0.51

With a water seal and lid, it is anticipated that emissions will be reduced by at least 90 percent.

Note that the solvents are processed separately and not as mixtures. Each of the above solvents are processed approximately 25 percent of the total operating hours annually.

X

55 Gallon Drum Filling and Weighing

55 gallon drums are placed on an electronic scale to be filled with solvent prior to shipment. (Note that only a portion of the solvents handled on-site are drummed for shipment, the balance is pumped into tanker trailers for bulk shipment). Drums are filled through the bung hole in the top of the drum. The vent hole on the drum is left closed at all times. The filling nozzle is designed with a lip to rest on the bung hole thus providing a partial seal to escaping solvent vapors.

Emissions have been calculated based on a filling rate of 20 gallons per minute utilizing the partial pressures of the solvents.

Attachment 6

9/10

B. Brung



ELIZABETH FIRE DEPARTMENT FIRE PREVENTION BUREAU

50 WINFIELD SCOTT PLAZA

ELIZABETH, N. J. 07201

EPH B. SULLIVAN
Director

ARD J. SISK
Chief

HAEL J. KUCAS
Supervisor of Bureau

352-9606

352-9600

THOMAS G. DUNN
Mayor

September 25, 1980

Mr. R. Rothschild
Perk Chemical Co. Inc.
217 South First Street
Elizabeth, N. J. 07206

Sir:

A inspection of your facility was conducted on August 26, 1980.
The following recommendations are being made to provide proper fire protection for your present operation.

- 1, That a fire wall be constructed along the property line to provide protection for the adjoining establishment.
- 2, That a 5 foot aisle be provided between different storage areas to provide examination and removal of defective containers.
- 3, That a Fire Department standpipe system be installed throughout the area to provide protection.
- 4, That a sprinkler system be installed to provide protection for flammable liquids and toxic chemical areas.
- 5, That a fire detection system be installed and that 24 hour security system be instigated to provide possible early detection in case of an emergency.
- 6, That an adequate number of ABC extinguishers be provided.
- 7, Drum storage is only a temporary container weighing in the area of 500 to 600 lbs. They should not be stored on top of each other, as a bearing weight on the bottom container, could be made to rupture, the bottom container, by exceeding its construction capabilities.
- 8, That a more legible means be used to identify materials on the premises for inspection purposes.
- 9, That this office receive from you OSHA data reports of all materials kept at your facility.
- 10, That all information that might aid the Fire Prevention Bureau be forwarded to this Bureau.

Additional Fire
100 ft. side

A-6



ELIZABETH FIRE DEPARTMENT FIRE PREVENTION BUREAU

50 WINFIELD SCOTT PLAZA

ELIZABETH, N. J. 07201

EPH B. SULLIVAN
Director

WARD J. SISK
Chief

HAEL J. KUCAB
Supervisor of Bureau

352-9606

352-9600



THOMAS G. DUNN
Mayor

Page 2

11, That retention tanks be provided for contaminated run off due to weather or washdown and flushing or emergency use of water for containment of fire.

(12) Recommend use of storage tanks, instead of drums, which utilize safety vents & valves and are made of heavier materials to provide a greater safety factor than the present 18 gauge steel drums in use. This construction must be submitted to the Elizabeth Planning Board and proper permits required from this office.

? Storage of flammables that can be piled in one area

Respectfully Yours,

Captain M. Kucab

Michael Kucab
Supervisor
Fire Prevention Bureau

MX/sjb

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION

SOLID WASTE ADMINISTRATION

AUTHORIZED CHEMICAL WASTE PROCESSING FACILITIES

MAY 1, 1979

<u>FACILITY</u>	<u>TYPE OF TREATMENT</u>	<u>TYPE OF WASTE ACCEPTED</u>	<u>AUTHORIZATION EXPIRATION DATE</u>
7427A Advanced Environmental Technology Corp. The Dayton Bldg. 520 Speedwell Ave. Morris Plains, NJ 07950 (201) 539-7111	Transfer, Storage	Packed laboratory chemicals, vegetable oils, motor oils, compressor oils, laboratory chemicals, solvents, pesti- cides, silver, platinum, gold, copper salts, acids, alkalies, dyes, pigments, solution	4/30/80
5119A AntiPollution Systems, Inc. 1503 W. Delilah Rd. Pleasantville, NJ 08232 (609) 641-1119	Incineration	Waste oils, emulsion, water- methanol waste, pigments, dyes	4/30/80
71241 The Ave.	Reprocessor	Crankcase oil, fuel oil, hydraulic oil	11/1/79
	Transfer, Storage	Flammable solids, paint, pigment, ink sludge, oil, solvents, slurries, flam- mable liquids, non-flammable liquids	4/30/80
	Oil Recovery	Oil and oil emulsions	4/30/80
	Organic reclamation, from contaminated aqueous waste, acid, base neutralization, hazardous waste de- toxification (oxi- dation reduction), fuel reclamation & ...	Organic aqueous wastes, solvents, chlorinated solvents, oily wastes, acids, alkalis, cyanides, mixed heavy metal waste, waste fuel and lubricating oils	NON- SPECIFIED

EXHIBIT "A"

A-6

<u>FACILITY</u>	<u>TYPE OF TREATMENT</u>	<u>TYPE OF WASTE ACCEPTED</u>	<u>AUTHORIZATION EXPIRATION D.</u>
68010 Eastcoast Pollution Control, Inc. Ceneco Blvd., P.O. Box 275 Clayton, NJ 08312 (609) 881-5100	Transfer, Storage	Cleanup debris, waste oil, mixed solvents, still bottoms	11/1/79
6205A Elco Solvent Corp. 39 Amor Avenue Carlstadt, NJ 07072 (801) 460-0400	Transfer, Storage	Flammable, non-flammable liquids, solvents	4/30/80
6714D Inland Chemical Corp. 600 Doremus Ave. Newark, NJ (201) 589-4085	Reclamation, Recovery	Solvents, organic liquids, aqueous-organic emulsions, lacquer, paint, pigment residues	11/1/79
5804A Kfr Enterprises Inc. 475 Division St. Elizabeth, NJ 07201 (201) 574-8804	Reclamation, Recovery, Blending, Treatment	Oil lubricants, fats & fatty oils, heavy and light hydrocarbons	3/23/80
7329A L & L Oil Service Inc. 7-3 Lloyd Rd. Aspen, NJ 07747 (201) 880-2783	Transfer, Storage, Reprocessor, Blending	Used oil, sludge	4/30/80
6112A Lynetex Waste Oil Service Inc. 8 Line Rd. Holmdel, NJ 07733 (201) 946-2505	Storage, Blending	Used oil, sludge, grease	4/30/80
12113 Marisol Incorporated 125 Factory Lane Middlesex, NJ 08346 (201) 459-5100	Transfer, Storage, Reprocessor, Re- clamation, Recovery, Blending, Treatment	Oil, emulsions, solvents, flammable organic liquids, non-flammable liquids, paint, grease, sludge, flammable liquids	4/30/80
12173 Magna Transportation 71 Charles Ave. Morris, NJ 07960 (201) 589-0277	Reclamation, Recovery, Treatment, Blending	Used oil, sludge, alkali liquors, solvents, acids, grease	NON- SPECIFIED

<u>FACILITY</u>	<u>TYPE OF TREATMENT</u>	<u>TYPE OF WASTE ACCEPTED</u>	<u>AUTHORIZATION</u> <u>EXPIRATION DATE</u>
6801B Oil Recovery Co. Inc. Cenco Blvd. P.O. Box 345 Clayton, NJ 08312 (609) 881-7400	Storage, Reprocesser, Reclamation, Recovery, Blending	Waste oil, solvents, oil sludge	11/1/79
OS09D Rollins Environmental Services P.O. Box 221 Bridgeport, NJ 08014 (609) 467-3100	Incineration, Neutrali- zation, chemical treat- ment, recovery, reclama- tion, transfer, storage	Sludges, contaminated residues, spill debris, process wastewater, slurries, tank cleanings, solvents	4/30/80
6907A S & W Waste Inc. 25 Delmar Rd. Jersey City, NJ (201) 344-4004	Transfer, Storage	Paint, dyes, pigment residues, heavy metal residues, flammable solids, oils, emulsions, flammable liquids, acids, alkalis, solvents	11/1/79
6801D Safety-Kleen Corp. Rino Industrial Park Clayton, NJ 08312 (609) 881-2526	Reclamation, Recovery	Oil, oil emulsions, oil sludges, mixed solvents	4/30/80
6901B Standard Tank Cleaning Co. Robert Avenue Lumberton, NJ 07032 (609) 339-5421	Recovery, Storage	Oils, emulsion, organic sludges, non-flammable liquids, flammable liquids	11/1/79

ESSEX CHEMICAL CORPORATION

SPECIALTY CHEMICALS DIVISION

1 CROSSMAN ROAD, SOUTH, SAYREVILLE, N.J. 08872
PHONE 201-727-2100

March 10, 1980

Perk Chemical
217 South First St.
Elizabeth, NJ

Gentlemen:

The waste product drums from Essex Chemical Co. (Sayreville Plant) contain a mixture of:

- Polyurethane prepolymers and polymers
- Polyvinyl chloride resins
- Plasticizers, primarily dioctyl phthalate, diisodecyl phthalate and hydrocarbon based oils
- Fillers and pigments, primarily calcium carbonate, carbon black and silica
- Solvents e.g. methanol, toluene, methyl ethyl ketone, cellosolve acetate
- Miscellaneous additives in lesser amounts

Very truly yours,



G.M. Parker
Sayreville Laboratory Mgr.

GMP/rk

cc: Mr. J. Prendergast
Mr. J. Schmittauer

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Attachment 7

RCRA PERMIT APPLICATION
FOR

Perk Chemical Co., Inc.
217 South First Street
Elizabeth, Union County, NJ 07206

EPA ID No. NJD002200046

January 1986

Original Application Prepared By:
Storch Engineers
Florham Park, NJ 07932

Revised Application Prepared By:
Kenneth L. Woodruff
Environmental Professional

In Association With:
Byron B. Bradd, P.E.
Consulting Chemical Engineer
Kenneth L. Woodruff & Associates
Morrisville, PA 19067

Byron B. Bradd
Byron B. Bradd NJPE 29278

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Process Design DescriptionS01 - Storage in Drums

(Line 1) ~~A maximum of 249,900 gallons of wastes are stored in drums on-site.~~

S01 - Storage in Tank Trailers

(Line 3) ~~Intermittent temporary storage of aqueous wastes occurs in three tank trailers, a total capacity 18,500 gallons,~~ while full loads are assembled for transport and treatment at other facilities. Individual trailer capacities are 8,000, 5,500 and 5,000 gallons.

T01 - Treatment in Tanks

(Line 2) ~~The existing distillation process for reclamation of chlorinated solvents (non-ignitables) has a capacity of 200 gallons per hour.~~

(Line 4) A mechanical mixing system will be installed upon NJ DEP Approval for solidification of wastes.

S01 - Storage in Containers

(Line 5) ~~Solidified materials may be stored briefly on-site in a dump trailer or roll-off container while awaiting transport to a licensed disposal facility.~~ This will be implemented as part of the mechanical solidification operation.

T04 - Other Processes

(Line 6) ~~The facility currently solidifies residues and still bottoms in drums to remove free liquids prior to landfill disposal.~~ Upon operation of the mechanical solidification process, solidification in drums will be discontinued.

Addendum to RCRA Application
Part A

page 2b of 5

B. FACILITY DESCRIPTION

B-1 General Description

Perk Chemical Co., Inc. is located approximately 3/4 mile northeast of the Exit 13 Interchange of the New Jersey Turnpike in the City of Elizabeth (see location map, Figure 1). The street address and mailing address of the installation is:

Perk Chemical Co., Inc.

217 South First Street

Elizabeth, New Jersey 07206

The company is engaged in the transportation, storage, processing, blending and distribution of virgin chemicals and waste chemicals. Its Standard Industrial Classification (SIC) code number is 5161. Virgin Solvents (primarily non-flammable chlorinated solvents) are received by tank truck in bulk, stored on site in bulk tanks, drummed and stored on site, and eventually delivered by truck to customers. ~~Waste chemicals~~

~~(primarily spent solvents) are received in drums or by tank trailer in~~

~~bulk. All wastes are stored in drums or temporarily in tank trailers.~~

~~Depending upon waste type, they are either processed for chemical recovery~~

~~on site in a distillation plant, sold to others for direct use, blended on~~

~~site with other chemicals to produce salable mixtures or are solidified on~~

~~site prior to shipment to a licensed disposal facility.~~ The market for

reclaimed solvents includes the metals cleaning, furniture stripping,

adhesives and aerosols industries.

~~Types of substances handled on site by the company include virgin and spent chlorinated hydrocarbons (no PCB's), non-halogenated solvents, paint waste solvents, halogenated still bottoms, non-flammable and flammable organic liquids, waste oils, acids and alkaline solutions.~~

The principal contact and party responsible for the operation of the facility, including hazardous waste activities at Perk Chemical Co., Inc. is:

Paul L. Fleischmann

President

201-355-5800 Office

516-239-4539 Home

B-2 Topographic Map

A 7.5-minute series topographic map showing a distance of 1000 feet around the facility at a scale of 1 inch equals 2000 feet is shown as Figure 2. (Appendix A includes the full Elizabeth Quadrangle)

Floodplain - The 100-year floodplain area is indicated in Figure 3. The 100-year flood elevation is 8.3. Although a small portion of the site is indicated to be in the 100-year flood hazard boundary of the Elizabeth River, the entire facility is in excess of elevation 8.3 feet. Hence the facility is not in the 100-year floodplain of the Elizabeth River. The facility is affected by the U.S. COE Elizabeth River Flood Control Project implemented in the area. This will be discussed later.

Surface Waters - Surface waters are indicated on Figures 1 and 2. The Elizabeth River and the Arthur Kill are the nearest surface waters; the former one intrastate, whereas the later is interstate (Staten Island, NY on the opposite shore).

Land Use - The zoning for the facility site is M-I

(manufacturing/industrial), as well as for the immediate surrounding areas, as indicated on Figures 4 through 8. Actual land use generally conforms to this zoning. Additional zoning and land use information is provided in Appendix B.

Wind Rose - A wind rose prepared from data supplied from the Newark Airport meteorological station is shown in Figure 9. As may be expected for this latitude, prevailing winds are from the west/northwest from December through February. During spring and summer, winds arise from the south and southwest. Fall winds generally prevail from the northwest.

Hazardous Waste Facility Boundary - The hazardous waste management facility consists of drum and vehicular storage areas, and a distillation plant as shown in the Facility Drawings (Appendix C and D). Metes and bounds of the facility are indicated on Facility Drawing No. PCC-02A (Appendix C) facility property deed information is included in Appendix E.

Access Control - The facility is surrounded by concrete floodwalls (topped with chain link fence) on the south and west sides, a concrete retaining wall (topped with chain link fence) on the east side, and a combination of dikes and chain link fence on the north side. There are six access points to the facility; five gates for over-the-road vehicles and one rail siding which is rarely used.

The main gate on South First Street is used for employee and visitor access, as well. All employees and visitors must check in to the main office before gaining access to the remainder of the site. During non-business hours the facility is protected by an electronic surveillance system, which is discussed in further detail in Section F-1, Security.

Injection and Withdrawal Wells - The facility has no injection wells. Two wells are located on the facility grounds along South First Street - (see Appendix C for location) away from the working area of the facility

for a source of distillation cooling water (1965 and 1974), these are no longer used. Refer to Appendix F, Wells and Groundwater, for additional details. The facility now uses city water as a source for make-up cooling water. The cooling cycle is closed-loop which is further described in Section D-3.

Buildings - Two buildings are on the site: a single-story office and laboratory building and single-story plant process building, where treatment, blending and distillation of virgin and waste solvents is conducted. A third single-story storage building is to be constructed at the location of the old building foundation as indicated on the site plan PCC-02A (Appendix C). This will be used for parts and equipment storage, as well as spill control materials.

Treatment, Storage and/or Disposal Operations - ~~Non-Flammable~~ materials are processed in the on-site distillation plant which is housed in a 50' x 50' x 18' plant process building at the northwest section of the site adjacent to South First Street. Within this building, wastes are prepared in an agitated mixing vessel prior to being pumped into a steam jacketed agitated still. The distillate vapor produced in the still passes through condensing, dewatering, drying, purification and filtering units. Operation of the distillation plant is described in greater detail in Section D-3.

An area near the central part of the site is to be used for a pilot mechanical solidification unit. This is the area presently used for batch solidification in drums. The mechanical mixing system will ultimately replace the batch drum operation and will be installed in a 20 foot standard shipping container.

Flammable and ignitable materials, substances, and wastes are stored in drums in the central part of the site. Flammable and/or ignitable

hazardous wastes are stored further than 50 feet from the property boundaries. These wastes are shipped off-site to facilities licensed to handle them.

~~The facility handles some corrosive wastes (i.e. acids and caustics).~~

However, these are segregated from other substances and stored in drums in a separate area to be constructed which will be surrounded by a spill curb and lined with acid brick. ~~Small quantities of reactive wastes are~~

~~accepted as part of Lab Pack Chemicals.~~ These are repackaged for shipment off-site to appropriate disposal facilities.

~~Storage of other wastes received at the facility occurs in drums on paved storage areas as indicated in Facility Drawing No. PCC-02A (Appendix C).~~

~~The temporary operating authority issued by NJ DEP permits the company to store up to 5000 55-gallon drums of hazardous wastes.~~

Bulk storage of virgin chemicals occurs in a 10'-6" diameter vertical steel tank 18'-6" in height, capacity 12,000 gallons (normally used for perchloroethylene or trichloroethylene), in a 9'-0" diameter 34'-0" long stainless steel horizontal tank, capacity 15,000 gallons (normally used for 1,1,1-trichloroethane) and in drums (mostly 55 gallons each). Two other 12,000 gallon tanks had previously been on site. Upon reaching the end of their serviceable life, they were removed, however replacement tanks are scheduled to be installed adjacent to the existing 12,000 gallon perchloroethylene/trichloroethylene tank as shown in the Facility Drawings. Air pollution permits have been issued for these tanks. These tanks will also be used for virgin or reclaimed product materials.

No disposal activities are conducted on site. Still bottoms (residue from the solvent recovery operation) are pumped from the still to a tank, trailer or drums. These materials are manifested and sent to licensed oil

recovery facilities. In the event the still bottoms are not recoverable, they are solidified in drums prior to transportation and disposal at a licensed disposal facility. Upon completion and startup of the proposed mechanical solidification system, this material will be solidified in bulk rather than drums.

Non-contact cooling water is recirculated from the still condensers to an outside tank trailer where cooling takes place and is then used again in the condensers. Make-up water to replace any evaporated cooling water and blowdown comes from the City of Elizabeth water supply system.

Recreation Areas - The nearest recreation areas are the playgrounds adjacent to schools. The closest of these is William Penn School, approximately 1800' from the center of the Perk site. This school was scheduled to be closed permanently in June 1983, and is scheduled for demolition.

Runoff Control Systems - The entire facility is paved with concrete and the perimeter is bounded with a concrete curb to prevent uncontrolled runoff of stormwater and prevent discharge of any spilled materials. Beyond this curb are concrete drainage channels and floodwalls (see Appendix C).

Access and Internal Roads - There are two vehicular access points on South First Street, 3 vehicular access points on Third Avenue and 1 rail siding at the northwest corner of the facility adjacent to the Conrail tracks. There are no internal roads, only access lanes for the drum storage areas.

Storm Sewers - No storm sewers are located on the plant grounds where chemicals are stored or handled. Drainage from areas around the facility flows through a series of open and closed channels on facility grounds and into an 18" diameter storm sewer inlet on South First Street where it is

~~ultimately directed through a 36" diameter run-off to the Elizabeth River approximately 325' west of the facility. This system is segregated from the working area by a curb system.~~ The USCOE constructed these drainage facilities and storm systems as part of the Elizabeth River Flood Control Project. There is no run-on to the active portion of the facility due to the curb surrounding the facility. ~~Rainwater falling on the active portion of the facility remains on the facility grounds until it evaporates or is contained for analysis and discharge to an appropriate facility. This is true for storms up to and including 25 year storms.~~ Storms of greater severity are covered in the Facility Flood Control Plan (section B-3).

Sanitary Sewers - The facility has two lavatories with two toilets and two sinks. Sanitary wastes from here are directed to the local sanitary sewer along South First Street and then to a 60 inch diameter interceptor, also along South First Street, where they are ultimately conveyed to the City of Elizabeth Joint Meeting Sewage Treatment plant about 1/4 mile away. A 54 inch diameter combined sewer is located along third Avenue, downstream of the facility. Combined sewer overflow discharges to the Elizabeth River.

Process Sewers - The facility has no active process sewers to the local sewer system nor any process discharge to surface waters at all. The company is contemplating, however, applying for a permit (NJPDDES) to discharge non-contact cooling water and stormwater resulting from storms of greater than 25 year intensity to the Elizabeth River. At present, non-contact cooling water flows through an on-site recirculation loop between the distillation plant and a tank trailer (where cooling takes place). Up until several years ago, non-contact cooling water was discharged to the local sewage treatment facilities. However, the

Elizabeth Joint Meeting Sewage Treatment plant began to prohibit discharge of industrial cooling water into sanitary sewers; the practice of such discharge was therefore discontinued by Perk Chemical Co., Inc. The local storm sewer which discharges through the above mentioned 36" diameter outfall to the Elizabeth River may be the logical medium for any future non-contact cooling water discharge. The company requires a NJDES permit to discharge in this manner.

Loading and Unloading Areas - All loading and unloading areas are diked (i.e. a curb surrounds the entire facility). Vehicles entering and leaving the facility carry bulk liquids and drummed substances. Loading and unloading areas for bulk liquids from tank trailers are adjacent to the dikes surrounding bulk storage tanks in the northeast and northwest corners of the facility. Loading and unloading of drummed substances occurs on the concrete drum staging area. Draw-off and filling of drums occurs in the plant process building (distillation plant at northeast section of site).

Fire Control Facilities - A fire hydrant is located adjacent to the center of the site along the sidewalk at Third Avenue. A second hydrant is situated approximately 100 feet from the site boundary on South First Street. Type BC and ABC hand held fire extinguishers are located in the Plant Process and Office Buildings and on facility forklifts. The facility also maintains a mobile, wheeled fire extinguishing cart with a large extinguishing capacity. This cart can be moved rapidly by one man to any facility area experiencing a fire problem. Access for fire department personnel and vehicles is readily available by two gates along South First Street and three gates along Third Avenue. Fire drills and fire safety inspections are conducted in conjunction with the City of Elizabeth Fire Department See Exhibit 10).

Barriers for Drainage or Flood Control - The entire facility is paved with concrete and a 4" to 6" concrete curb surrounds the active part of the site. The USCOE, New York District, constructed stormwater and flood control structures beyond this curb under its Elizabeth Flood Control Project during the late 1970's and 1980 at the Perk Facility grounds and surrounding areas. Major aspects of this project as they affected the facility included construction of a concrete floodwall (top elevation 13.6'), flood gates, and a concrete drainage ditch around the south and west boundaries of the facility. Drainage from surrounding areas is allowed to flow through open and closed channels around the active portion of the site and ultimately to the Elizabeth River. This stormwater does not come in contact with the active portion of the Perk site. Stormwater resulting from up to a 25 year storm falling on the active portion of the Perk site does not flow into this drainage channel, since the channel for its entire length has a minimum four inch curbing on the facility side.

Location of Operational Units within the Hazardous Waste Management Facility Site where Hazardous Waste is Treated, Stored and Disposed - Treatment of non-ignitable materials occurs in the distillation plant at the northeast section of the site. Solidification of waste currently occurring in drums, will take place in a mechanical mixing system near the center of the site, upon approval by the NJDEP. Storage of drummed substances occurs on concrete pavement throughout the general areas of the facility. The bulk storage tanks are only used for storing virgin and reclaimed products. No wastes are stored in these bulk tanks. No disposal activities take place on site. All hazardous wastes requiring disposal are shipped off site to licensed disposal facilities.

Location of Energy Transmission Equipment - Overhead electrical energy transmission lines are located along South First Street and Third Avenue.

The distillation plant has 208 volt, 3 phase electrical service, while the office building is served by 110 volt, single phase service.

Zoning Restrictions, Actual Land Uses and All Public Buildings within One Mile of the Facility - Refer to the discussion on land use earlier in this section and Appendix B.

Vehicle Ingress and Egress Routes Connecting the Facility to Major Highways - The nearest major highways are the New Jersey Turnpike (Interstate Route 95). Exit 13 Interchange is approximately one mile away by road; Interstate Route 278 (known as the Staten Island Expressway in Staten Island, NY) where the Geothals Bridge crosses the Arthur Kill is approximately one mile away by road; and U.S. Routes 1 and 9 are approximately two miles away by road at the Bayway Circle (Bayway Avenue Intersection). Routes most commonly travelled between the Perk Chemical Company and these major highways include:

- o South First Street to Bayway Avenue, to Interstate Routes 95, 278, or U.S. Highways 1 and 9.
- o South First Street to Third Avenue, to Atlantic Avenue and Cole Place, and then to Interstate Routes 95, 278, or U.S. Highways 1 and 9.
- o South First Street to Elizabeth Avenue, East Jersey Street or Trumbull Street, and then to U.S. Highways 1 and 9 or local roads.

The above roads and highways are indicated on Figure 10.

Elevations - A concrete floodwall bounds the south and west sides of the site with a top of wall elevation of 13.6 feet. The 100-year flood elevation is 8.3 feet. The concrete pavement on the active area of the facility site has an elevation ranging from 9.17 to 10.89 feet.

Elevations were taken throughout the site in July 1984, these are

indicated in Appendix C.

B-3 Location Information

B-3a Seismic Standard - Perk Chemical Co. is not located within 2000 feet of an active fault.

B-3b Floodplain Standard - Perk Chemical Co. is located several hundred feet north and west of the Elizabeth River. The 100-year floodplain elevation at the facility is 8.3 feet. Since the lowest on-site elevation is 9.17, the facility is not located within the 100-year flood hazard boundary.

B-3b(1) Demonstration of Compliance - Prior to November 1, 1985 when the floodplain remapping of the area was completed, the Perk Chemical Co. site had been in the 100-year flood hazard boundary of the Elizabeth River. As a result, certain flood protection measures have been undertaken at the facility.

B-3b(1)(a) Flood Proofing and Flood Protection Measures - The U.S. Army Corps of Engineers designed and managed construction of the Elizabeth Flood Control Project in the Elizabeth River Basin. As part of this project, concrete floodwalls and steel floodgates were constructed along the north and Third Avenue sides of the Perk Facility. In addition, a concrete retaining wall was constructed along a portion of the South First Street side of the property near Third Avenue. (See Plot Plan-Appendix C) The remainder of the facility is protected against uncontrolled flow of flood waters by the 3'-6" high concrete block wall and 6'-0" high dikes constructed by Perk Chemical Co., Inc. as part of its DPCC Plan. In addition, a 6 foot high chain link fence and gates along South First Street in the area not protected by a dike or retaining wall, serve to provide protection against washout in that area.

The U.S. Army Corps of Engineers conservatively designed all

structures for the Elizabeth Flood Control Project. As contained in the Project General Design Memorandum prepared by the Department of the Army, New York District, Corps of Engineers in June 1969, the project was designed to provide protection against a once in 140 years flood (a flood with a 0.7 percent chance of occurrence). Protection is provided to elevation 11.6 feet above mean sea level. This elevation is selected as the result of combining a 9.0 feet surge (the maximum ever recorded) with the astronomical mean high tide of 2.6 feet.

The USCOE General Design Memorandum states that the "hydraulic objectives of improvements is to prevent recurrent flooding in the project area by either lowering the flood profile by deepening or widening the river channel where economical, or by confining the flood waters by levees and walls where channel improvement is not economical, or by using a combination of both methods.

The floodwalls and flood gates at the Perk Chemical Facility are constructed to elevation 13.6 feet. All concrete structure designs prepared by the USCOE are in accordance with Engineer Manuals for Civil Works as follows:

1) Retaining Walls (EM 1110-2-2502 29 May 61)

2) Wall Design - Flood Walls (EM 1110-2-2501)

Change dated 18 June 1962

3) Working Stresses for Structural Design

(EM 1110-1-2101 1 Nov. 63)

Hydrodynamic forces on flood protection structures adjacent to the Perk Chemical Co., Inc. Facility will be negligible, since the USCOE Design Memorandum reports that "wave action is considered to be dampened substantially in the tidal reach upstream of South Front Street because of the meandering alignment of the stream near the mouth. Velocities would

be negligible in the tidal reach of the stream under design conditions".

Details on the flood control structures at the Perk Chemical Facility, as provided by the U.S. Army Corps of Engineers, New York District are provided in Appendix M.

B-3b(1)(b) Flood Plan - Since the facility is not in the 100-year floodplain, the facility requires no flood plan. However, to provide for control of flood waters which may tend to back up through the storm sewer, and as part of the facility DPCC plan, a gate valve, as approved by the USCOE will be installed at the 18-inch diameter storm sewer at the corner of South First and Third Avenue. Completion of this installation is scheduled for May 31, 1986. In the event of a storm of greater than 25 year intensity, this valve will be closed to prevent potentially contaminated storm water from entering the Elizabeth River. Following the storm, water samples will be taken to determine if the storm water can be discharged to the Elizabeth River. If not, appropriate treatment will occur prior to discharge.

B-4 Traffic Patterns - Access to Perk Chemical Co., Inc. is from South First Street or along Third Avenue. Major roads used by trucks traveling to and from the company include the New Jersey Turnpike (Route 95), Route 278 and Routes 1 and 9. South First Street and Third Avenue are both two-way streets. Parking of passenger vehicles is allowed but not extensively practiced along these two streets.

~~A number of tank trailers, trucks, tractors and van trailers may be parked within the facility at any given time.~~

Traffic Control - Traffic in the immediate plant area is controlled by stop signs.

Access Road Surfacing - Roads in the immediate area are constructed of a 2-inch bituminous concrete pavement (blacktop) wearing surface on top of

a 5-inch bituminous stabilized base course on top of 2 inches of quarry processed stone. The combined wearing course, base course, and subbase have an American Association of State Highway and Transportation Officials (AASHTO) structural number of 3.3. According to the City Engineer of the City of Elizabeth, Mr. Victor Venegra, the road has been constructed in compliance with the Standard Specifications For Road And Bridge Construction (1961) by the New Jersey State Highway Department and the 1980 Supplement To The Standard Specifications For Road And Bridge Construction Dated 1981 by the New Jersey Department of Transportation.

C. WASTE CHARACTERISTICS

This section describes the chemical and physical nature of the hazardous wastes handled, stored and/or treated by Perk Chemical Co., Inc. at its Elizabeth facility, as well as the Waste Analysis Plan (C-2) for sampling, testing, and evaluating these wastes. Section C-3 is the Waste Acceptance and Quality Control Plan for the facility.

C-1 Chemical and Physical Analyses

Hazardous Wastes Stored at the Facility - Hazardous wastes are stored in 55 and 30 gallon drums. NJDEP has previously given the company temporary operating authorization (TOA) to store up to 5,000 drums of hazardous waste on the site. Types of waste most frequently received by the company include, but are not limited to:

Non-Flammable Organic Liquids

- Tetrachloroethylene (Perchloroethylene)
- Trichloroethylene
- 1,1-Trichloroethane (Methyl Chloroform)
- Ethylene Chloride

Flammable Organic Liquids

- Toluene
- Xylene
- Mineral Spirits
- Napthalene

Kerosene
Methanol
Butyl Alcohol
Isopropyl Alcohol
Methyl Ethyl Ketone (MEK)
Acetone
Cyclohexanone

Oils

Mineral Oils
Machine Oils
Cutting Oils
Cooling Oils
Still Bottom Oils
Miscellaneous oils not enumerated above (small quantities)

Emulsions

Dily emulsions (oil and water, oil and solvent, etc.)

Acids and Alkali Solutions

Caustic
Detergents with alkaline base
Sulfuric acid
Nitric acid
Acetic acid
Hydrochloric acid

A complete listing of the specific wastes handled, transported, and/or treated by the company as indicated in the RCRA Part A Application follows:

EPA Hazardous Waste No.
and Hazard Code

Waste Type

D001 (Ignitable)	Non-listed ignitable waste
D002 (Corrosive)	Non-listed corrosive waste
D003 (Reactive)	Non-listed reactive waste (Lab Pack Chemicals Only)
D004 (Toxic)	Arsenic
D005 (Toxic)	Barium
D006 (Toxic)	Cadmium
D007 (Toxic)	Chromium
D008 (Toxic)	Lead
D009 (Toxic)	Mercury
D010 (Toxic)	Selenium
D011 (Toxic)	Silver
F001 (Toxic)	Spent degreasing solvents tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1 trichloroethane, carbon tetrachloride and chlorinated fluorocarbons and sludges from recovery of these solvents
F002 (Toxic)	Halogenated solvents and recovery still bottoms
F003 (Ignitable)	Non-halogenated solvents and solvent recovery still bottoms (xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone and methanol)
F004 (Toxic)	Spent non-halogenated solvents, cresols and cresylic acid and nitrobenzene and still bottoms from recovery
F005 (Ignitable, Toxic)	Non-halogenated solvents and solvent recovery still bottoms (toluene, methyl ethyl ketone, carbon disulfide, isobutanol and pyridine)
F006 (Toxic)	Wastewater treatment sludges from electroplating operations
F007 (Reactive, Toxic)	Spent cyanide plating bath solutions

P008 (Reactive, Toxic)	Plating bath sludges where cyanides are used
P009 (Reactive, Toxic)	Spent stripping and cleaning bath solutions from electroplating
P010 (Reactive, Toxic)	Quenching bath sludge
P011 (Reactive, Toxic)	Spent cyanide solutions from salt bath pot cleaning from metal heat treating
K028 (Toxic)	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1 trichloroethane
K029 (Toxic)	Waste from the product steam stripper in the production of 1,1,1 trichloroethane
K030 (Toxic)	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene
K062 (Corrosive, Toxic)	Spent pickle liquor from steel finishing operations
U112 (Ignitable)	Ethyl acetate
U113 (Ignitable)	Ethyl acrylate
U115 (Ignitable, Toxic)	Ethylene oxide
U117 (Ignitable, Toxic)	Ethyl ether
U121 (Toxic)	Trichlorofluoromethane
U122 (Toxic)	Formaldehyde
U123 (Corrosive, Toxic)	Formic acid
U134 (Corrosive, Toxic)	Hydrofluoric acid
U140 (Ignitable, Toxic)	Isobutyl alcohol
U154 (Ignitable)	Methanol or methyl alcohol
U159 (Ignitable, Toxic)	Methyl ethyl ketone
U161 (Ignitable)	Methyl Isobutyl ketone
U162 (Ignitable, Toxic)	Methyl methacrylate
U165 (Toxic)	Napthalene
U188 (Toxic)	Hydrobenzene phenol or carbohic acid
U196 (Toxic)	Pyridine

U210 (Toxic)	Tetrachloroethylene, perchloroethylene
U213 (Ignitable)	Tetrahydrofuran, 1,4-epoxybutane
U220 (Toxic)	Toluene
U223 (Reactive, Toxic)	Toluene diisocyanate
U226 (Toxic)	1,1,1 trichloroethane, 1,1,1 trichloromethane
U228 (Toxic)	Trichloroethylene, trichloroethane, acetone trichloride
U229 (Toxic)	Trichlorofluoromethane
U238 (Toxic)	Urethane (Ethyl carbonate)
U239 (Ignitable)	Xylene
U080 (Toxic)	Dichloromethane
K080 (Corrosive)	Caustic cleaning wastes from paint manufacturing
K086 (Toxic)	Sludges and wastes from lub washers-ink formulation
U001 (Ignitable)	Acetaldehyde
U002 (Ignitable)	Acetone
U003 (Ignitable, Toxic)	Acetonitrile or cyanomethane
U006 (Corrosive, Reactive Toxic)	Acetyl chloride
U019 (Ignitable, Toxic)	Benzene
U029 (Ignitable)	Bromoethane
U031 (Ignitable)	n-Butyl alcohol
U037 (Toxic)	Chlorobenzene
U043 (Toxic)	Vinyl chloride
U044 (Ignitable, Toxic)	Chloroform
U045 (Ignitable, Toxic)	Chloromethane
U051 (Toxic)	Cresote
U052 (Toxic)	Cresols
U056 (Ignitable)	Cyclohexane

U057 (Ignitable)	Cyclohexanone
U077 (Toxic)	1,2 dichloroethane
U107 (Toxic)	Di-n-octyl phthalate
U108 (Toxic)	1,4 Dioxane
U070 (Toxic)	O-Dichlorobenzene
U151 (Toxic)	Mercury
U083 (Toxic)	1,2 Dichloropropane
U227 (Toxic)	1,1,2 Trichloroethane
F019 (Toxic)	Wastewater treatment sludges from chemical conversion coating of aluminum
K048 (Toxic)	Dissolved air flotation (DAF) from the petroleum refining industry
K049 (Toxic)	Slop oil emulsion solids from the petroleum refining industry
K050 (Toxic)	Heat exchanger bundle cleaning sludge from the petroleum refining industry
K051 (Toxic)	API separator sludge from petroleum refining
K052 (Toxic)	Tank bottoms from the petroleum refining industry
K002 (Toxic)	Wastewater treatment sludge from the production of chrome yellow and orange pigments
K003 (Toxic)	Wastewater treatment sludge from the production of molybdate orange pigments
K004 (Toxic)	Wastewater treatment sludge from the production of zinc yellow pigments
K005 (Toxic)	Wastewater treatment sludge from the production of chrome green pigments
K006 (Toxic)	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated)
K007 (Toxic)	Wastewater treatment sludge from the production of iron blue pigments

721 (Toxic)	Waste automotive crankcase and lubricating oils from automotive service and gasoline stations, truck terminals, and garages
722 (Toxic)	Waste oil and bottom sludge generated from tank cleanouts from residential/commercial fuel oil tanks
723 (Toxic)	Waste oils and bottom sludge generated by gasoline stations when gasoline and oil tanks are tested, cleaned or replaced
724 (Toxic)	Waste petroleum oil generated when tank trucks are cleaned
725 (Toxic)	Oil spill cleanup residue which is contaminated beyond saturation or the generator fails to demonstrate that the spilled material was not one of the listed hazardous waste oils
726 (Toxic)	The following used and unused waste oils; metal working oils; turbine lubricating oils; diesel lubricating oils; and quenching oils
728 (Toxic)	Bottom sludge generated from the processing, blending and treatment of waste oil processing facilities

Waste Handling - Drivers are instructed to examine wastes at the time of pickup to assure compliance with the manifest requirements including labelling and numbering. Drivers are also under instructions to check container quality to make certain containers can be properly transported and are in good condition with no sign of leakage. Drivers have blanket authority from company to reject any containers, which in the driver's own opinion cannot be transported safely. If for any reason, the driver feels there is a discrepancy, the waste is not accepted. All hazardous wastes must be labeled at time of pickup. Labels on drums show key information such as waste type, generator, generator location, and accumulation start date. Tank trailers used to pick up bulk liquids are appropriately placarded according to USDOT requirements. Copies of the manifests,

D. PROCESS INFORMATION

D-1 Containers

~~D-1a Containers - The maximum inventory of hazardous waste drums in storage before being processed at the site will not exceed 5000 drums. The container storage area is located outdoors. No drums are placed on unprotected ground for storage. All drums are stored on concrete pavement. Drummed waste includes oils, emulsions, acids and alkali solutions, flammable and non-flammable organic liquids and chlorinated solvents, all of which contain free liquids. Corrosive wastes (acids and alkalies) are stored in a separate area surrounded by a spill curb.~~

Waste drums delivered at the facility arrive with manifests and are labelled in accordance with RCRA regulations. ~~On some occasions, Perk may pick up wastes in one of its tank trailers. In such a case, the waste may remain in the tank trailer for several days pending either transshipment to another disposal facility, drumming on company premises, or transfer for recycling by another company. Normally, the waste arriving in tank trailers is either transshipped, processed, treated or drummed on the next working day following arrival. Tank trailers are parked on-site in the designated truck parking area (see Site plan, Appendix C).~~

Two forklift trucks equipped with drum grabbers are maintained on-site for drum handling. ~~Non-flammable chlorinated solvents are stored for on-site processing. Ignitable waste liquids are stored in the central part of the site, separate from other substances and materials. A plan~~

~~view of the container storage areas is provided in Drawing No. PCC-14~~

(Appendix D), All drums are stored in columns, two drums wide. Drum columns are spaced approximately 2 feet apart and are no more than 30 drums deep for easy access by inspectors. Drums are never stacked more than 3 high.

D-1a(1) Description of Containers - Steel drums are used at the facility to store wastes, virgin materials, and finished goods.

According to the U.S. Department of Transportation nomenclature, containers used by Perk Chemical Co. to store hazardous waste include 5B 55-gallon, 17E 55-gallon, and 17E 30-gallon steel drums. These drum types have been in standard use in industry for the indoor and outdoor storage of trichloroethylene, perchloroethylene, 1,1,1-trichloroethane, methylene chloride, and other non-flammable organic liquids, as well as flammable organic liquids including mineral spirits, isopropyl alcohol, MEK, and other materials handled by Perk Chemical Co. The 5B type is a straight side, open head container with 16-gauge body and 16-gauge heads. The 17E type is a straight side container with 20-gauge body and 18-gauge tops and bottoms. The 17H type is typically used for lab packs (overpack drums). Additional information regarding these containers is included in Appendix G. Some containers are steel drums lined with epoxy or phenolic coatings. Some containers are new, and some are reconditioned in accordance with federal regulations. Climate of this region does not materially affect drums at the Perk site for the length of time they are stored there. The average length of time for drum storage is 60 to 120 days (as a range). The limiting factor for removing a drum from service is not the effect of climate upon drums, but number of reuses and manner of handling.

D-1a(2) Container Management Practices - Wastes are collected and

transported to the Perk Chemical Co., Inc facility in vehicles registered, owned and operated by Perk Chemical Co., Inc. or by other licensed waste haulers. In the case of vehicles operated by Perk Chemical, this provides added control and monitoring step. Drivers examine each waste container at time of pickup to check for compliance with manifest and labeling requirements and physical condition of drums. Drivers do not examine contents of each individual drum. If for any reason the driver feels there is a discrepancy, the waste is not accepted. Upon arrival at the facility, waste drums are inspected, quantity checked, labelled, marked and then stored in segregated areas designated for that waste type to await further handling. Transfer of drums to the drum storage area is performed by a forklift truck equipped with drum grabbers. Ignitable, non-ignitable and corrosive materials are stored in separate areas. Lab pack drums are stored in a designated storage area. Containers remain closed while on-site until handling or processing requires them to be opened. For example, when the contents of a drum of waste perchloroethylene or 1,1,1-trichloroethane are to be processed through the distillation apparatus, either the forklift truck or a hand truck is used to bring the closed drum from the drum storage area to the plant process building. The drum is opened in the building and its contents pass through a filter screen and then through the process equipment. Empty drums may be solvent rinsed, reused, stockpiled, sold to drum reconditioners, or scrapped depending upon their condition. For example, after the contents of a chlorinated waste solvent drum are placed in the still, the empty drum, if inspection indicates it to be in good structural condition, is rinsed with trichloroethylene. The rinsate from this operation is recycled on-site and the cleaned drum is reused. Some empty drums are stockpiled on-site pending a decision regarding final

disposition. Stockpiled drums however, may ultimately be reused if they are in good condition, sold to drum reconditioners, or crushed and hauled off-site as scrap. Drums sent to be reconditioned or crushed and hauled off-site as scrap do not contain residue subject to regulation.

The Plant Supervisor inspects the drum storage area daily. Daily inspection reports are made and maintained in the office. Deficiencies are reported to management and appropriate correction measures are immediately taken.

Compatibility - The major waste categories handled are:

Non-Flammable Organic Liquids

Flammable Organic Liquids

Oils

Emulsions

Acids and Alkali Solutions

Among the above, steel drums, lined or unlined, are suitable for storage of non-flammable and flammable liquids, oils and emulsions. Within the acids and alkali solution (corrosive) class, caustic and detergents with an alkaline base are suitable for storage in steel drums. Nitric acid is stored in either plastic drums, drums with polyethylene liners, or stainless steel containers. Sulfuric acid, highly concentrated, is stored in mild steel drums. In lower concentrations (i.e. 50% and below), it is stored in plastic drums or drums with polyethylene liners. Hydrochloric acid is stored in plastic drums or polyethylene lined drums. Acetic acid is stored in mild steel or stainless steel drums.

When generators of waste contact Perk Chemical for a pickup, Perk requests from the generator a description of the containers being used to store the waste. A check is made by Perk to insure that the selected

container type is compatible with the waste (based upon literature search and knowledge and experience of Perk employees). No wastes are picked up from generators who do not store waste in appropriate containers. In some instances Perk provides the appropriate storage containers to the waste generators. Perk maintains an inventory of all types of required drums to furnish, if needed, or to immediately replace deteriorated or leaking containers found as a result of daily site inspections. The types of drums and liners maintained have been selected by Perk based upon standard charts and tables in engineering handbooks and manufacturer's literature such as those produced by Uniroyal, Gates and Knappco.

For certain acids, polyethylene lined drums are used, as noted above. Polyethylene lined drums are acid-proof. Polyethylene lined drums are not used for solvents. Drums used for solvents are solvent-proof 5B or 17E 55-gallon and 17E 30-gallon steel drums.

Lab packs (overpack drums) are typically 17H drums.

D-1a(3) Secondary Containment System - The entire Perk site is 2.032 acres, of which approximately 1.804 acres are actively used for company operations (remainder of area is occupied by concrete retaining walls and drainage channels all part of the Elizabeth River Flood Control Project). The perimeter of the 1.804 acre active portion of the site is curbed to provide secondary containment for all drum storage and transfer areas. The curb is a minimum of 4 inches high. At vehicular entrances, this line of containment remains unbroken, since ramps (bumps) are provided. Considering the space occupied by structures, drums and other objects, the 4-inch curb has the theoretical capability of containing approximately 131,000 gallons. However, since the concrete base is pitched, it will not contain this volume. The capacity is much greater than 10 percent of the volume of the drums on-site (27,500 gallons) which is necessary to meet

regulations.

A separate drum storage area with its own spill curb will be constructed of compatible materials to contain drums of corrosive wastes (acids and alkalis) to prevent contact with other waste types stored on-site should a leak occur. (See Site Plan Appendix C) The entire site is paved with concrete having a minimum thickness of 6 inches. All secondary containment systems, including concrete pavement, curbs and dikes are inspected for general condition daily. Should cracks or other defects such as settling concrete be noted, repairs are made promptly. Inspection records are maintained and stored in the office.

The heaviest materials handled by Perk Chemical Co. are chlorinated solvents which weigh up to approximately 13.55 pounds per gallon. The heaviest 55-gallon drum would therefore weigh about 815 pounds (including weight of the steel drum). Perk stores these drums at a maximum of three high. The minimum 6 inch thick concrete pavement is adequate for this loading. Maximum loading is 250 pounds per square inch based on the heaviest material.

Normal rainfall on the active portion of the Perk site is contained within the minimum 4 inch perimeter curb mentioned above, and is swept from around drums and is allowed to evaporate. The concrete base within the active storage area is pitched so that containers are kept from contact with free standing stormwater. In addition, localized free standing water in container storage areas is swept out and/or drummed for disposal as hazardous waste after each storm.

Removal of Liquids from Collection System - In the event of a drum or tank trailer spill, the on-site 6,100 gallon capacity vacuum tank trailer is utilized to remove the material which is contained in the curbed area and transfer it to drums or other tank trailers. Should the contents of

containment area are 6 inches above grade, stormwater run-on is prevented. The capacity of the containment system is 13.7 percent of the maximum volume of containers to be stored in the area.

Accumulated liquids, stormwater or spills will be analyzed using the on-site ~~laboratory~~. Analysis will involve the checking of pH of the liquid. In the event of a spill, the waste material will be pumped from the sump into drums or alternatively pumped out using the vacuum truck. In the event of stormwater, the water will be pumped and allowed to evaporate on the pavement area or alternatively pumped into the nearby stormwater drainage channel for discharge, providing this is permitted by NJPDES Permit.

Completion of the Corrosive waste Storage Area is scheduled for completion by May 31, 1986.

Corrosive Waste Storage Area - Containment Volume Calculations

Maximum No. of Drums Stored = 384

Maximum No. of Gallons = $384 \times 55 = \underline{21,120 \text{ Gallons}}$

No. of Drums on Bottom Row = 144

Area Occupied by Bottom Row of Drums

$3.4 \text{ sq.ft. per drum} \times 144 = \underline{490 \text{ sq.ft.}}$

Volume of Containment Area

Drum Storage Surface

$2 \times 26.5' \times 19.3' \times 0.5' \text{ (Min. Depth)} = 511 \text{ cu. ft.}$

Forklift Access Ramp within Containment

$2 \times 8' \times 26.5' \times 0.25' \text{ (Avg. Depth)} = 106 \text{ cu. ft.}$

Liquid Removal Sump

$2 \times 2' \times 2' \times 2' = 16 \text{ cu. ft.}$

GROSS CONTAINMENT VOLUME = 633 cu. ft.

LESS - Volume Occupied by Bottom Row of Drums

$490 \text{ sq. ft.} \times 0.5' \text{ (Min. Depth)} = 245 \text{ cu. ft.}$

NET CONTAINMENT VOLUME = 388 cu. ft.

NET CONTAINMENT GALLONAGE

$388 \text{ cu. ft.} \times 7.48 \text{ gal/cu. ft.} = 2901 \text{ gal.}$

MINIMUM CONTAINMENT VOLUME REQ. = 2112 gal.
CONTAINMENT AREA WILL HOLD 13.7% of
MAXIMUM VOLUME OF STORED CONTAINERS

Solidification Process - The company consolidates solid and semi-solid materials in drums and sends these to licensed TSDF's. in the future, consolidation of solid materials and solidification of materials with free liquids will take place in a mechanical solidification system. Solidified materials will then be loaded into liquid tight roll-off containers or trailers for bulk shipment to licensed disposal facilities. Details on the proposed mechanical solidification process are included in Section D-4.

D-2 Tanks

Description of Tanks - There are no underground storage tanks for wastes. Two above-ground storage tanks for virgin or reclaimed solvents are located at the site as follows:

1-(18'-6" by 10'-6") diameter vertical steel tank, 12,000 gallon capacity (normally contains perchloroethylene or trichloroethylene). These are virgin or reclaimed materials, not hazardous wastes.

1-(34'-0" by 9'-0") diameter horizontal, stainless steel tank, 15,000 gallon capacity (normally contains 1,1,1 trichloroethane). This is virgin or reclaimed material, not hazardous waste.

The first tank indicated above is located near the process plant building, while the latter is located near the Conrail siding at the northwest corner of the property. All the tanks are connected by pipe to the process plant building.

The facility had two additional 12,000 gallon storage tanks, which were removed from service when they reached the end of their useful life. Replacements for these two tanks may be installed. Air pollution permits

have been obtained for two new tanks and a secondary containment (dike) system exists to accommodate them. These will also be utilized for virgin or reclaimed materials only.

The following is a general description of these tanks:

2-~~12'-6"~~ 10'-6" by 10'-6") diameter vertical steel tanks, 12,000 gallon capacity (tanks to normally contain virgin or reclaimed perchloroethylene or trichloroethylene).

Tank Corrosion and Erosion - Organic liquids such as trichloroethylene and perchloroethylene have corrosion rates of less than 0.02 inches per year on steel and stainless steel.

No wastes are stored in bulk storage tanks, only virgin or reclaimed materials.

Tank Management Practices - A flowsheet for the entire facility is shown in the accompanying Facility Drawings (Appendix C). Non-flammable chlorinated solvents, such as trichloroethylene, Methylene chloride, 1,1,1-trichloroethane and perchloroethylene are processed for recovery in the on-site distillation plant. Chlorinated solvents are measured, inspected and segregated by type for storage prior to processing. Finished goods are either drummed and weighed on a 1,000 pound capacity scale or are pumped into above-ground bulk storage tanks to await shipment to market. Oily still bottoms are pumped from the still and drummed for shipment and sale. They usually have economic value because of their heat content (Btu recovery). In the event of disposal, still bottoms are presently solidified in drums to eliminate free liquids and transported to a disposal facility licensed to handle that type of waste material. When the mechanical solidification process is brought on-line, drum solidification will be discontinued. Tanks and vessels within the process plant building are equipped with fail-safe devices, as well as alarms

which detect and indicate overfills. The entire process is electrically interlocked and includes an alarm system consisting of horns to alert the operator of any malfunction. In order to prevent spills within the plant, tanks and vessels contain high level controls which are interlocked with the pump. Hence the high level alarm not only alerts the operator, but also shuts down the pump feeding the tank to prevent overflows. Further, spill prevention in the event of electrical failure has been provided on the tanks. Should any process vessel overflow in the plant, the overflow liquid would flow by gravity into the agitated mixing vat or into the concrete-lined pit located beneath the distillation unit. In either case, adequate secondary containment and fail-safe devices are provided in the process plant building. The Operating and Control System is further discussed in Section D-3.

D-3 Distillation Plant

Non-flammable chlorinated solvents, such as trichloroethylene, methyl chloride, 1,1,1-trichloroethane and perchloroethylene (tetrachloroethylene) are processed for recovery in the on-site distillation plant. These non-flammable chlorinated materials typically contain 85 to 90 percent solvents and 15 to 10 percent oils, lubricants and dirt. The distillation plant normally processes up to 2500 gallons per day of input material on a batch operation basis. For a 200 day per year operating basis (allowing for downtime) the plant output capacity of recovered solvents is approximately 400,000 gallons annually. However, not all of this capacity is utilized in the recovery of spent solvents. Some distillation is done on a custom basis, while other processing is performed on purchased solvents which require upgrading. In the reclamation of spent solvents, up to 45,000 gallons per year of still

bottoms (oil, grease and dirt) may be produced. This material is either blended and sold for heat recovery (fuel use) or solidified and disposed of in accordance with appropriate federal and state regulations.

All wastes delivered to the facility arrive with manifests. They are inspected and checked for quantity accuracy against the manifest. Drums are marked to include the source and labeled as to type and manifest number. This is in accordance with the Waste Analysis and Quality Control Plan. ~~Drummed wastes are stored in the drum storage area designated for~~

~~that specific type of materials. For example, non-flammable chlorinated solvents are stored for on-site processing, while flammable organic liquids for heat recovery are stored prior to blending and loading in tank trailers for shipment off-site. Corrosive wastes are stored prior to treatment, neutralization or shipment to other facilities. Flammable and non-flammable liquids are stored in separate areas.~~ Two forklift trucks equipped with drum grabs are maintained on-site for drum handling.

~~Wastes arriving in a bulk tank trailer are either drummed on site, held in tank trailers temporarily pending shipment to another facility, or pumped directly into the mixing vat located in the plant building for distillation.~~

~~Non-flammable chlorinated solvents which are processed in the on-site plant are either fed from bulk tank trailers or drums into the 2,000 gallon capacity agitated mixing and treatment vat. This batch operation allows for the blending of waste feedstock as well as the addition of soda ash for pH control. From this vat, the solvent is pumped into the steam jacketed 3,000 gallon agitated distillation kettle. A No. 2 fuel oil fired high pressure steam boiler provides the process steam. Oil still bottoms resulting from the process are pumped from the distillation unit periodically and are drummed for shipment and sale for oil and lubricant~~

~~recovery or heat exchanger for the disposal of the~~ The distillate vapor passes through three condensing stages and then by gravity into a 40 gallon stainless steel water separator. Cooling water for the three condensers is supplied at a maximum rate of 90 to 100 gallons per minute by a circulating system. The operation utilizes approximately 25,000 to 35,000 gallons per day of non-contact cooling water which is circulated between the distillation plant and a tank trailer parked outside of and adjacent to the north wall of the process plant building.

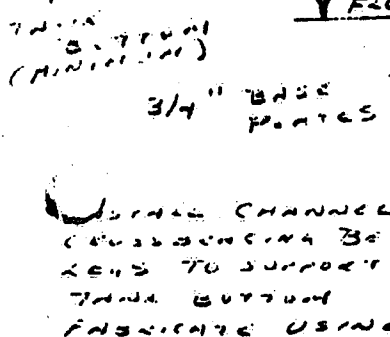
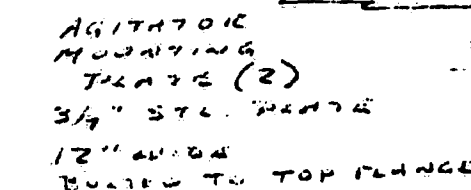
The small amount of water removed in the 40 gallon water separation unit flows back into the 2,000 gallon agitated mixing and treatment vat for recycling through the system. From the water separator, the solvent condensate flows into a 350 gallon stainless steel holding and settling tank. Free water which floats to the surface of the settling tank is removed and returned to the mixing vat, while the settled solvent is pumped to a 1,700 gallon stainless steel holding tank. When this holding tank reaches capacity, the product is fed at a slow rate (i.e. 4 to 10 gallons per minute) through a drying column and two 10 micron filters, prior to being returned to another 1,500 gallon stainless steel storage tank. A carbon purification column may also be utilized (optional). From this final storage tank, the liquid is either drummed and weighed on a 1,000 pound capacity Fairbanks electronic scale, pumped into a bulk storage tank, or pumped into a tank trailer for delivery to the ultimate consumer. In some instances, the solvent is blended into a specialty product which involves blending with other solvents or ingredients into the finished goods.

A Process Flow Diagram for the Distillation Plant operation is included as Drawing No. PCC-03, as well as a Piping and Instrumentation

E. GROUND WATER MONITORING

The requirements for ground water monitoring are not applicable to the Perk Chemical Company facility since no disposal activities take place on-site.

11/12/51



C. GROUND WATER ASPECTS

As indicated previously, an on-site well supplies cooling water for the operation of the process condensers. This 6-inch well (NJ Permit No. 26-3500), location indicated in Drawing PCC-02, was initially drilled in 1965 to a depth of 285 feet. It initially supplied 120 gallons per minute of cooling water to the distillation plant. The well casing extends to a depth of 41 feet. The static water level at the time of drilling the well was observed to be 90 feet. The well is drilled into the Brunswick shale.

By 1968, the pumpable volume of water fell below the required 90 to 100 GPM, therefore the depth of the well was extended to 325 feet at that time. The maximum pumping rates measured in 1968 were as follows:

325'	- 94 GPM
305'	- 94 GPM
285'	- 83 GPM
265'	- 83 GPM
245'	- 75 GPM
200'	- 35 GPM

A second well was drilled on the Perk Chemical Co. site in 1974 (NJ Permit No. 26-4600). This is also a 6-inch well drilled to a depth of 440 feet and cased to a depth of 43 feet. At the time of drilling, the static water level was observed to be 40 feet and the pumping rate was determined to be 220 gpm. The well has not been in service for several years.

Ground water apparently occurs under watertable conditions in the fill and tidal marsh sediments immediately underlying the site. Ground water also occurs under semi-contained conditions in the alternating sands beneath the silty clay aquitards and the secondary fractures within the Brunswick shale.

Ground water in the uncontained zone of the upper water-table occurs between 2 and 5 feet below land surface as indicated in the 1966 boring logs (submitted as Appendix C of the December, 1978 Engineering Plans).

Ground-water flow at the site is believed to be south-southeast towards the Elizabeth River and the Arthur Kill. However, ground-water table gradients are predictably very low and therefore its movement is largely unpredictable without detailed analysis over a wide area. Tidal effects from Newark Bay can significantly affect local flow patterns.

Ground-water from the semi-confined aquifer of the Brunswick shale is probably not in good hydraulic communication with the fill and tidal marsh deposits because:

- 1) The site is generally a ground-water discharge zone.
- 2) Sequences of silty clay and clayey silts separate the unconfined from the semi-confined flow systems.

The nearest other operating water well to that at the Perk Chemical Co. site is operated by Reichold Chemical Company at 726 Rockefeller St., Elizabeth. That site is approximately 3000 feet southwest of the Perk site and across the Elizabeth River. That well (NJ Permit No. 26-4096) drilled in 1967 is 10 inches in diameter, 400 feet deep and yields 415 gallons per minute. The well is cased to a depth of 39'-6". Water is utilized for industrial purposes.

No public water supply wells are located within more than 2 miles of the Perk Chemical Co. site.

the largest tank (15,000 gallons) spill, the material would be contained within its own diked area. The containment dike could be pumped out within 2-3 hours using the vacuum truck. In all large spills, the on-site vacuum trailer would be utilized for spill cleanup, hence the removal time will be ~~short~~. In the case of all minor spills, absorbent materials maintained on-site are used to cleanup the spilled substance. All areas of the facility are inspected on a daily basis. Spilled or leaked waste is removed immediately upon detection.

Corrosive Waste Drum Storage Area - The basic design parameters for the area is the ability to safely store up to 384 drums (21,120 gallons) of corrosive waste. In order to facilitate this number of drums and allow for a minimum containment capacity of 10 percent of the total volume of containers, the inside dimensions of the area are 53 feet by 19 feet. In order to contain the corrosive materials, the storage area will be lined with 2 1/4" x 8" x 3 3/4" red shale acid brick laid in Potassium Silicate Mortar with double trowelled bed joint over a Tedlar Membrane. A 3/8" expansion joint will be installed one brick in from the sidewall. This expansion joint will be filled with a special chemical resistant elastomeric compound. Since this joint will be the most vulnerable point of the containment area, it will be inspected on a daily basis. A supply of the elastomeric expansion joint compound will be maintained on-site to make immediate repairs should they be necessary. Detailed information on the materials of construction and design sketches are included in Appendix J.

The design of the containment area provides for a sloped base to promote drainage of stormwater to corner sump pumpout points. Hence stormwater may be readily removed so that drums are not standing in water for any extended period. In addition, due to the fact the curbs of the



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF WASTE MANAGEMENT
32 E. Hanover St., CN 028, Trenton, N.J. 08625

DR. MARWAN M. SADA
DIRECTOR

LINO F. PEREIRA, P.E.
DEPUTY DIRECTOR

08 APR 1985

MEMORANDUM

TO: Vince Krisak, Supervisor
Central Field Office

FROM: Frank Coolick, Chief *FC*
Bureau of Hazardous Waste Engineering

SUBJECT: IPCC/DCR Plans for Perk Chemical Company, Inc.,
Elizabeth, NJ, EPA ID NO. NJD 002 200 046

The Division of Waste Management reviewed the IPCC/DCR Plans for the above referenced facility and determined them to be in conformance with the "Rules Concerning Discharges of Petroleum and Other Hazardous Substances" pursuant to N.J.A.C. 7:1E-4.4 through 4.21.

~~Therefore, the Division granted approval of these plans on February 20, 1985 (see attached letter).~~ This approval was contingent upon the referenced facility's submission of additional information as outlined in the Division's February 20, 1985 letter.

The Bureau of Hazardous Waste Engineering received the revised IPCC/DCR Plan for the referenced facility on March 22, 1985 and is sending you a copy for your files.

Should you have any questions on this matter, please contact Jeffrey Colish, of my staff at 2-8129.

EP46:lk
Attachment

A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
BUREAU OF FIELD OPERATIONS

20-04-C

ENFORCEMENT REFERRAL

TO: John Skoviet thru Karen Conrad DATE: 4/4/86
FROM: ART DEKOSIM REGION: 1-2-1
RE: Rock Chemical Corp MSDCD-00076 217 S. 1st St
Name of Facility ID Number Location Address
Lot 832 Block 2 Elizabeth Township
Lot and Block County
217 S 1st St Elizabeth Mailing Address
Responsible Party Paul J. Hishman

The attached inspection/investigation report(s) dated 3/27/86 is being referred and it is recommended a A-1/FSO be issued for violations of:

NJAC 7:26- ~~9.4(d) Storage of hazardous waste in containers in poor condition~~
~~9.4(e) Drums not properly sealed by waste owner~~
~~9.4(f) Drums do not have ID labels~~
~~9.4(g) No documentation of training~~
~~9.4(h) Training records not kept for 3 years~~
~~9.4(i) No spill response drill~~

NJSA 58:10-

Suggested penalty: AVERAGE

ADDITIONAL COMMENTS:

See Attached 2/21/84 Report

REVIEWED AND APPROVED BY:

Anthony J. Cavalieri
9-4-85

B

A-7

NOTICE OF VIOLATION

ID NO. VJ 0002200046 DATE 4/3/86
NAME OF FACILITY PERK CHEMICAL CORP.
LOCATION OF FACILITY 217 SOUTH FIRST ST. ELIZABETH
NAME OF OPERATOR Paul Flerishman, President

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder and/or the Spill Compensation and Control Act, (N.J.S.A. 58:10-23.11 et seq.) and Regulations (N.J.A.C. 7:1E-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

DESCRIPTION OF VIOLATION ~~7-26-9.4(d) 2~~ STORAGE OF Hazardous
Waste in poor condition Containers 7-26-9.4(d) IV
Drums not segregated by waste type
~~7-26-9.4(d) V~~ Drums Do not have identification Labels
~~7-26-9.4(g) 6~~ Documentation of Training 7-26-9.4(g) 7
Training records not kept for 3 years 7-26-9.4(g) 8
No Semi-Annual Drills

Remedial action to correct these violations must be initiated immediately and be completed by

4/15/86. Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of \$25,000 per violation.

[Signature]
Investigator, Division of Waste Management -
Department of Environmental Protection

FACILITY NAME:

PERK CHEMICAL CORP

ADDRESS:

217 S FIRST ST

BRIDGEVIEW

TIME IN:

8:24 AM

COUNTY:

BRIDGEVIEW

TIME OUT:

11:00

EPA ID :

PA 0000000000

DATE OF INSPECTION:

2/17/80

PHOTOS TAKEN

☐

☐

If yes, how many? _____

SAMPLE TAKEN

☐ YES

☒ NO

NO. OF SAMPLES _____

NJDEP ID # _____

MANIFESTS REVIEWED

☒ YES

☐ NO

Number of manifests in compliance _____

Number of manifests not in compliance _____

List manifest document numbers of those manifests not in compliance.

All in compliance

TO: VilesFROM: Henry BertramDATE: 4/2/26SUBJECT: Pack Chemical

The Chief Engineer of Pack Chemical
inspected a facility that had approx. 2,000
barrels on site that were accepted and
stored as waste material. It is by these
barrels are mostly acid waste, but need
the analysis before disposal. Currently, the
material is being accepted and stored
correctly. This facility requires a Nov
from the department to expedite the analysis
and disposal of waste on site.

SUMMARY OF FINDINGS

FACILITY DESCRIPTION AND OPERATIONS

Perk Chemical Corp is a generator, transporter and Commercial TSD facility. The facility is permitted to accept most types of Hazardous waste. The facility operates a solvent still and accepts solvents and cartages from approx. 2000 drycleaning companies. The solvents are distilled, the solid filter are accumulated then shipped to Michigan disposal.

The facility also acts as a storage facility for corrosives, lab packs, flammables, spill cleanups and other materials. It is also a distribution center for the reclaimed solvents.

Currently there are approx 4,000 - 55 gallon steel and plastic drums on site. (see inventory list)

The facility changed owners in November 1985 and is processing material that was already on site. Much of this material was accepted on the basis of waste profile sheets only, and requires reanalysis before disposal. These drums have been on site for several years, and do not have proper hazardous waste labels. Many show signs of rust, however I did not ~~show~~ see any leaking containers. These drums

Please circle all appropriate activities and answer questions on indicated pages for all activities circled.

Storage

Container - pg. 9

Tank, above ground - pg. 12

Tank, below ground - pg. 12

Surface Impoundments - pg. 15

Waste Piles - pg. 17

Other _____

Treatment

Tank - pg. 12

Surface Impoundments - pg. 15

Incineration - pg. 20

Thermal Treatment - pg. 23

Chemical, Physical and
Biological Treatment - pg. 25

Other _____

Disposal

Landfill - pg. 18

Surface Impoundments - pg. 15

Other _____

YES NO N/A

7:26-9.4(d)

Containers

What type of containers are used for storage?
Describe the size, type, quantity and nature
of wastes (e.g., 12 fifty-five gallon drums
of waste acetone)

55 gallon steel and plastic Drums
30 gallon steel Drums.

7:26-10.4(b)

Is there a containment system for spills,
leaks and precipitation?

✓ — —

If yes, describe the containment system.

Facility has concrete pad and
6" berm

7:26-9.4(d)1i

Do the containers appear to be of sturdy leak-
proof construction of adequate wall thickness,
weld, hinge and seam strength, and of
sufficient material strength to withstand
side and bottom shock, while filled, without
impairment of the container's ability to
contain hazardous waste?

✓ — —

If no, explain.

		<u>YES</u>	<u>NO</u>	<u>N/A</u>
7:26-9.4(d)1ii	Are the lids, caps, hinges or other closure devices of sufficient strength that when closed, they will withstand dropping, overturning or other shock without impairment of the container's ability to contain hazardous waste?	✓	—	—
	If no, explain.			
7:26-9.4(d)2	Do the containers appear to be in good condition, not in danger of leaking?	—	✓	—
7:26-9.4(d)2	If not, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific. <i>Some Drums were rusty and Corroded.</i>			
7:26-9.4(d)4i	Are all containers securely closed, except those in use, so that there is no escape of hazardous waste or its vapors?	✓	—	—
	If no, explain.			
7:26-9.4(d)4iii	Do containers appear to be properly opened, handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	✓	—	—
	If no, explain.			
7:26-9.4(d)iv	Are containerized hazardous wastes segregated in storage by waste type?		✓	—
7:26-9.4(d)v	Are containerized hazardous wastes arranged so that their identification label is visible?		✓	—
7:26-9.4(d)3	Are hazardous wastes stored in containers made of compatible materials? <i>Many Drums did not have proper hazardous waste labels</i>	✓	—	—

		<u>YES</u>	<u>NO</u>	<u>N/A</u>
	Does the records include the date, and time of the inspection, the name of the inspector, a notation of the observations made, and the date and nature of any repairs or other remedial action?	<u>/</u>	<u>—</u>	<u>—</u>
7:26-9.4(g)	<u>Personnel training</u>			
	Have facility personnel successfully completed a program of classroom instruction or on-the-job training within 6 months of having been employed?	<u>/</u>	<u>—</u>	<u>—</u>
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	<u>/</u>	<u>—</u>	<u>—</u>
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training?	<u>/</u>	<u>—</u>	<u>—</u>
	Is there written documentation of the following:	<u>/</u>	<u>—</u>	<u>—</u>
7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?	<u>/</u>	<u>—</u>	<u>—</u>
7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?	<u>/</u>	<u>—</u>	<u>—</u>
7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?	<u>/</u>	<u>—</u>	<u>—</u>
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?	<u>—</u>	<u>/</u>	<u>—</u>
7:26-9.4(g)7	Are training records kept on all current employees until closure of the facility and training records kept on former employees for 3 years from their last date of employment?	<u>—</u>	<u>/</u>	<u>—</u>
7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?	<u>—</u>	<u>/</u>	<u>—</u>

DISCLOSURE STATEMENT

Name, address and identification of business concern seeking a permit:

NAME Perk Chemical Co., Inc. ADDRESS 217 S. First St., Elizabeth, N.J. 072
NEW JERSEY STERN-TAX IDENTIFICATION NUMBER (if applicable) N/A
FEDERAL EMPLOYER IDENTIFICATION NUMBER (FEID) 22-1723327

SECTION I.a

Enter the names, addresses, positions, and Social Security Account Numbers (SSAN) of all officers, directors, or partners of the business concern seeking a permit:

<u>Name</u>	<u>Address</u>	<u>Position</u>	<u>SSAN</u>
<u>Paul I. Fleischmann</u>	<u>280 Leroy Ave, Cederhurst,</u> <u>New York 11516</u>	<u>President*</u>	<u>057-50-5333</u>
<u>Michael S. Persico</u>	<u>132 Rivendell Road</u> <u>Hillsborough, N.J. 08876</u>	<u>Sec./Treas *</u>	<u>060-54-5860</u>

*Proposed officers of Perk Chemical Co., Inc. if sale of stock to
Cycle-Chem Inc. is approved by NJDEP and completed.
if additional pages are appended, indicate page numbers here _____

SECTION I.b

Enter the names, addresses, and identification numbers (SSAN for individual, and Stern ID or FEID for business) of all persons or business concerns holding more than ten percent (10%) of the equity in, or more than ten percent (10%) of the liability of, the business concern seeking a permit:

<u>Name</u>	<u>Address</u>	<u>ID Number</u>
<u>Cycle-Chem Inc.*</u>	<u>1250 Liberty Ave, Hillside, N.J. 07205</u>	<u>22-255961</u>

* If the proposed sale of stock by the current principals of Perk Chemical Co., Inc. is approved by NJDEP then the sole stockholder will be Cycle-Chem Inc.

if additional pages are appended, indicate page numbers here _____

RECEIVED

JUN 27 1985

DEPT. ENVIRONMENTAL PROTECTION
NEWARK OFFICE

A-7

PART XI 43.

Business Concern Disclosure Statement

<u>Nature of action</u>	<u>Issuing Agency</u>	<u>Issued To</u>
<u>Item 1-Administrative Order 5-3-79</u>	DEP-NJ	Perk Chemical Co., Inc.
<u>Item 2-Administrative Consent Order</u> 8/13/79	DEP-NJ	" "
<u>Item 3-Administrative Order 7/25/80</u>	DEP-NJ	" "
<u>Item 4-Administrative Order 6/8/81</u>	DEP-NJ	" "
<u>Item 5-Notice of Violation 9/10/82</u>	DEP-NJ	" "
<u>Item 6-Notice of Violation 7/26/83</u>	DEP-NJ	" "
<u>Item 7-Notice of Violation 10/18/83</u>	DEP-NJ	" "

Explanation of each item submitted on following two pages.

PART XI 43

Item 1 - Administrative Order Dated May 3, 1979 - The company's temporary operating authority (TOA) expired April 30, 1979. Prior to that time the DEP issued TOA's with three or six month expiration dates and on several previous instances the company's TOA had been automatically renewed, while the company complied with certain DEP requirements. The engineering firm hired by our company had been working closely with DEP on our behalf and to the best of their and our knowledge the DEP was satisfied with our company's progress in meeting their requests. On April 29 or April 30 the consulting engineer had a meeting with the DEP engineer in charge of the Perk Chemical facility. He was informed that the DEP was quite satisfied with our progress, felt it had received 100% cooperation, and was shown the renewed TOA, which was to be effective May 1, 1979. In spite of this, the company received a telegram on or about May 3 requesting it to discontinue operations. When we contacted the DEP by telephone, we were permitted to continue operations and we were informed that any problems would be resolved amicably.

We subsequently had an administrative consent order, dated August 13, 1979, which satisfactorily removed the problems between the DEP and Perk Chemical. As a result of such administrative consent order the DEP withdrew many of its requests it had previously made after receiving certain technical background information from Perk Chemical relating to its operation.

Item 2 - Administrative Consent Order Dated August 13, 1979 - See Item 1 above.

Item 3 - Administrative Order Dated July 25, 1980 - The company feels strongly that this administrative order was issued in error by the DEP. In its administrative consent order dated August 13, 1979 (See Item 2 above) the DEP clearly stated that it assumed no jurisdiction over the company's virgin chemical operations. The delivery vessels in question were in fact not at all being used for hazardous waste storage, but were in virgin solvent service. Therefore, the issuance of this administrative order was in direct contravention to the DEP's earlier agreement not to involve itself in the company's virgin chemical operations.

Item 4 - Administrative Order Dated June 8, 1981 - In this order the DEP alleged certain shortcomings in compliance with conditions set forth in the company's registration. Among other items the DEP alleged failure to file a complete DPCC plan, failure to conduct fire drills, lack of tank identification, and failure to notify that the company's bond had been continued. The DEP was in error on all four above items. The company did file a complete DEPCC Plan prior to that date, the company attempted to conduct fire drills, but could not receive the cooperation of the local authorities. To refute the DEP allegations the company produced correspondence between it and the local fire department showing it had made a good faith effort to conduct such fire drills. The company's tanks were in fact identified properly prior to the issuance of such administrative order and when we contacted the DEP about the alleged shortcomings, the DEP representative apologized for the error and told us that the tank markings were quite proper. Although the company's escrow agreement had expired, the funds were left on deposit for the benefit of the DEP, were never withdrawn, and the escrow agreement was subsequently extended. Thus it appears to us that the substantial contents of this administrative order had in fact been complied with, but were not so reflected on the DEP records.

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PART XI 43

Item 5 - Notice of Violation Dated September 10, 1982—The above violation involved two shipments of approximately 80 drums each from Raybestos Corp. in Stratford, Ct. Each one of these drums had a hazardous waste label on it. However, the generator had not filled in the manifest number on the hazardous waste label, affixing the same with the manifest number missing. This error was not uncovered by our driver, nor was it uncovered by our unloading crew, when this shipment was received at Park Chemical. However, let it be said, that this shipment was properly manifested, had hazardous waste labels on each container, and the absence of the manifest number was corrected as soon as it was discovered. The driver received a reprimand and our yard crew was advised never to unload in the future, unless all the information was contained on the hazardous waste label.

telegram on or about.

Item 6 - Notice of Violation Dated July 26, 1983—This alleged violation consisted of observations by an inspector of drums having missing hazardous waste labels being stored in the yard. To be precise it involved perhaps six or seven drums. In each instance the drum was clearly identified as the source and it was obvious that the labels had been affixed, but had come off the drum due to either poor affixation by the generator or through loosening of the adhesive on the label owing to tremendous rains during the month of April. In fact in at least one instance the inspector found the label on the ground next to the drum and so noted in here weekly report, proving without a doubt that the drums had a label affixed to them. Our company took strenuous objection to this alleged violation. It was our contention then, and it is our contention now that the drums were in fact, labelled and marked in accordance with NJAC7:26-7.682 when received and accepted by the facility. There was never any doubt as to the source of the waste.

Item 7 - Notice of Violation Dated October 18, 1983—This violation involved failure to submit annual report on a timely basis. This was indeed an oversight on our part and certainly not intentional. If you will examine the records of the past such annual reports have been filed for years with the department on a timely basis. In this instance, through office error, submission of the report was overlooked. When your office notified us, we promptly corrected the omission and we had hoped that this matter was considered closed.

44. NEW JERSEY ADMINISTRATIVE PROCEEDINGS. List and explain any administrative actions of the NJDEP against you which have been the subject of proceedings in the Office of Administrative Law (OAL) or hearings before the Department (pre-OAL).

<u>Title of Case</u>	<u>OAL Docket No.</u>	<u>DEP Docket No.</u>	<u>Disposition</u>
----------------------	-----------------------	-----------------------	--------------------

SEE ITEM 43 ATTACHED

45. FEDERAL VIOLATION NOTICES. List and explain any Notice of Violation, Notice of Prosecution, Administrative Order or similar citation issued to you within the past 10 years by the United States Environmental Protection Agency or Department of Transportation for any alleged violation of any federal law or regulation pertaining to protection of the environment.

<u>Name of Entity Cited</u>	<u>Date Issued</u>	<u>Location of Alleged Violation</u>	<u>Nature of Alleged Violation</u>	<u>Disposition</u>	<u>EP/ DOT No.</u>
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NONE

A-7

46. FEDERAL ADMINISTRATIVE PROCEEDINGS. List and explain any administrative actions of the U.S. Environmental Protection Agency or Dept. of Transportation against you which have been the subject of proceedings before an Administrative Law Judge.

<u>Title of Case</u>	<u>A.L.J. and Court</u>	<u>Docket No.</u>	<u>Disposition</u>
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NONE

47. MUNICIPALITIES, OTHER STATES AND FOREIGN COUNTRIES. List and explain any Notices of Violations, Notices of Prosecution, Administrative Orders, Citations of any kind, and/or Notice of Intent to Deny or Revoke a license, or any similar violation notices issued to you within the past 10 years by any municipality, any state other than New Jersey, or the government of any foreign country, for any alleged violation of any law or regulation pertaining to protection of the environment, other than a motor vehicle or littering offense.

<u>Name of Entity Cited</u>	<u>Date Issued</u>	<u>Location of Alleged Violation</u>	<u>Nature of Alleged Violation</u>	<u>Issuing Agency</u>	<u>Disposition</u>
PERK CHEMICAL CO., INC. and Ray Rothschild	1977	Jersey City, N.J.	Storing drums containing flammable chemicals at warehouse owned by Jersey City	Fire Dept. Jersey City	Acquitted by Municipal Court
			Same as above	N.J. DEP	Consent agreement to remove drums settled for \$750. No admission. Case dismissed.
			Same as above	Jersey City	Settled for \$3,000. No findings or admissions

48. OUT-OF-STATE ADMINISTRATIVE PROCEEDINGS. List and explain any citations for alleged violation of environmental protection laws or regulations in any jurisdiction other than New Jersey or the federal system, which have been the subject of proceedings before an administrative tribunal.

<u>Title of Case</u>	<u>Docket Number</u>	<u>Name and address (city, state) of Tribunal Hearing Case</u>	<u>Disposition</u>
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NONE

40. CIVIL COURT LITIGATION. List and explain any alleged violations of environmental protection laws or regulations in any jurisdiction which have been the subject of proceedings before a civil court.

List in the following order: New Jersey cases, federal cases, other states, foreign countries.

Include any of the following dispositions: final administrative orders, administrative consent orders, court orders, court decrees, consent decrees, consent adjudications, judicial consent orders, final civil penalty adjudications, final action on bond forfeiture, settlement agreement, contempt adjudication, and judgments. Consider a determination "final" if it has been entered with consent, constitutes final agency action, or has been entered by a court, even if it is still on appeal.

<u>Title of Case</u>	<u>Docket Number</u>	<u>Name and Location of Court</u>	<u>Disposition</u>
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SEE ITEM 47

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Part XII

CIVIL COURT JUDGEMENTS AND PENDING LITIGATION

List in the following order: New Jersey cases, federal cases, other states, foreign countries.

30. ANTITRUST JUDGEMENTS. List and explain any judgements, consent decrees or consent orders entered against the business concern or any key employee, officer, director, partner, or holder of more than 5% of the equity in the business concern, pertaining to a violation or alleged violation of federal or state antitrust, trade regulation or securities regulation laws.

<u>Title of Case</u>	<u>Docket Number</u>	<u>Name and Location of Court or Agency</u>	<u>Date Judgment, Decree Or Order Entered</u>	<u>Nature of Order</u>
S vs Kleigman Bros Inc. Et Al	EDNY76CR650	Federal Court Brooklyn, NY	1976 Criminal Complaint	Dismissed
JS vs Kleigman Bros. Inc., Et Al			Consent Decree 1976	Agreed not to discuss retail price of Perchloroethylene

31. OTHER JUDGEMENTS. List and explain any judgement of liability rendered against the business concern or any key employee, officer, director, partner or holder of more than 5% of the equity in the business concern, in the past 10 years.

<u>Title of Case</u>	<u>Docket Number</u>	<u>Name and Location of Court</u>	<u>Nature of Suit</u>	<u>Date Judgment Entered</u>	<u>Amount of Terms of Judgment</u>
None					

32. PENDING SUITS. List and explain any civil suits in which the business concern is presently involved as a party plaintiff or defendant.

<u>Title of Case</u>	<u>Docket Number</u>	<u>Name and Location of Court</u>	<u>Nature of Suit</u>	<u>Date Filed</u>	<u>Status</u>
John F. Kenny vs. Scientific, Inc.	L-51533-84	SUPERIOR COURT OF N.J., LAW DIV., Middlesex County	Approx. 90 Plaintiffs vs 580 Defendants. Claim injuries resulting from waste at Kin-Bac Landfill in Edison, NJ	August, 1984.	Pending

~~CONFIDENTIAL~~

CRIMINAL PROCEEDINGS

32. INDICTMENTS, CHARGES AND CONVICTIONS. List and explain any indictment, charge or conviction against the business concern or against any key employee, officer, director, partner or holder of more than 5% of the equity in the business concern, for any crime or disorderly persons offense committed in this or any other state, federal or foreign jurisdiction, other than a motor vehicle offense (violation of Title 39 of the Revised Statutes or equivalent motor vehicle offenses in other jurisdictions).

List convictions first. Do not list arrests unless they resulted in the filing of formal charges.

Note: Death by Auto or Vehicular Homicide is considered a criminal offense and should be listed under this item.

Name of Person or Entity Charged or Convicted	Description of Crime Charged	Indictment or Information No.	Jurisdiction where Charged	Date Charged	Disposition (if Convicted or Pled Guilty, State Sentence imposed)
Perk Chemical Co., Inc.	Conspiracy to unlawfully discharge pollutants and to create a public nuisance; aiding and abetting, and substantive violations of the same.	SGS 61-79-10	State Grand Jury-Assigned to Superior Court, Union County	2/29/80	Acquitted on all charges.
Ray Rothschild					

A-7

A conviction for any of the crimes listed in N.J.A.C. 7:26-16.8(b) may result in the business concern having its solid or hazardous waste license denied or revoked, unless the convicted person's rehabilitation is demonstrated "by clear and convincing evidence".

The business concern, and the convicted person have the burden to present evidence of rehabilitation to the Department of Environmental Protection and the Attorney General. In determining whether rehabilitation has been demonstrated, DEP will request a recommendation from the Attorney General. Some of the factors the Department will consider are set forth in N.J.A.C. 7:26-16.8(c). (See Appendix A in your instruction materials.)

If the Department makes an initial determination that rehabilitation has not been demonstrated, the applicant or licensee will have an opportunity to supplement the record before the Department's decision becomes final, either informally or in a hearing before an Administrative Law Judge, or both.

34. EVIDENCE OF REHABILITATION. Set forth any written evidence or arguments you wish to make that demonstrate rehabilitation. Attach additional sheets if necessary. Attach any additional documents you wish the Department and the Attorney General to consider; for example, letters of recommendation.

NOT APPLICABLE

Hazardous Waste Facility Inspection Form

Facility Name: Perk Chemical
Address: S. First Street Elizabeth 07206
Facility Type: T S D Facility
Block: 2 Lot: 862

Date: 5/6/86
Fac. Rep: Richard Taylor
Position: _____
Inspector: Gary Redrosian
EPA ID No.: NJM002200046

Weather Conditions: Sun Temp: 75° Wind Direction: N Speed: 5 MPH

Operating Authorization:

Facility is operating under (type of authorization): TOX

Summary of Inspection (check appropriate statement)

Facility: ☒ Is in compliance with operating authorization in areas reviewed during ins.
() Is not in compliance with operating authorization.

Summary of Violations issued:

None Issued

Inspection Observations

YES NO N/A

1. Does the treatment process (including storage tanks) system show any signs of ruptures, leaks, or corrosion?
If yes, explain: _____

— ☒ —

2. Spills. If yes, explain: _____

☒ — —

3. Odors. If yes, explain: _____

— ☒ —

Container Storage: (7:26-9.4(d))

Drum No. Alloy 4500 Stack Height 3 Storage Method on concrete

Do the containers appear to be in good condition, not in danger of leaking: If no, explain in detail.

2 Waste flammable drums were leaking with small (1" x 1") spill beneath them.

— ☒ —

Are all containers closed except those in use?

☒ — —

Are incompatible wastes stored separate from each other?

☒ — —

Adequate aisle space?

☒ — —

Are containers stored according to waste characterization?

☒ — —

A-7 D

YES

NO

N/A

Is each container marked or labeled with the words "Hazardous Waste" and in compliance with the DOT labeling requirements:

- Generator Name
- Address
- UN, NA Number
- DOT Shipping Name
- EPA ID Number
- Manifest Number
- Accumulation Start Date

✓	—	—
✓	—	—
✓	—	—
✓	—	—
✓	—	—
✓	—	—
✓	—	—

Vehicles: (7:26-7.1 and 7.5)

- Valid Registration Card
- Numbers Displayed
- Properly Placarded

3 None checked

—	—	✓
—	—	✓
—	—	✓

Manifests: (7:26-7.4, 7.5 and 7.6)

Does each manifest have the following information?

The generator's name, mailing address, telephone number, EPA ID Number and signature?

✓	—	—
---	---	---

The transporter's name, EPA ID Number and signature?

✓	—	—
---	---	---

SWA transporter registration number?

✓	—	—
---	---	---

The name, address, EPA ID Number of the designated facility and signature?

✓	—	—
---	---	---

A description of the wastes (DOT)?

✓	—	—
---	---	---

The total quantity of each hazardous waste?

✓	—	—
---	---	---

Has the generator received signed copies (from the TSDF) of all the manifests for waste shipped off site more than 35 days ago?

✓	—	—
---	---	---

Record Keeping: (7:26-9.4 (f and i))

Are the following being kept properly?

1. Daily inspection log?
2. Daily operation log?
3. Waste inventory log?

✓	—	—
✓	—	—
✓	—	—

Samples Taken: () Yes () No Number of Samples: _____

NJDEP ID# _____

Photographs Taken: () Yes () No

Gary Bedrosian
Signature of Inspector

Richard V. Taylor
Signature of Facility Representative

Findings and Summary:

General

I was accompanied by Janine Toselli, Deborah Mayum, NJDEP Plasma during my inspection.

Site inspection

I observed 2 drums containing flammable liquid leaking with a 'x' stain beneath it. These will be pulled and repacked today. Approx 75 drums still require hazardous waste labels.

Paperwork

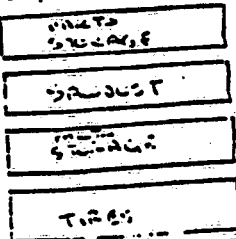
5 outgoing manifests since last inspection (5/1/86)
34 incoming ¹³inspections manifests since last inspection -
Logs and Paperwork are up to date.

Gary Bedosian
Signature of Inspector

Signature of Facility Representative

Drum Storage Area

Trailer Storage



- Drum staging Area for Incoming Material -

UNPAVED

DRUM STORAGE AREA

DRUM STORAGE AREA

leaking drums
staging area

Non-Flammable

Drum Storage - Flammable -

Flammable

CEMENT
PT

TIRES
TRAILER

Drum Transfer Area

Empty Drums

to be rinsed -
Empty Drums

TRAILER PARKING

DRUM STORAGE AREA

ready product for

Empty Drums

TIRES STORAGE

Empty Drums

OFFICE

crankle

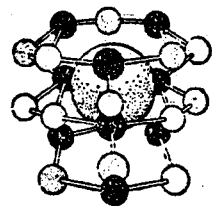
Process Building

cooling H₂O recirculating trailer

12,000
G.P.M.

Diked Area

HW/EF 20-06



The Reutter Building, Ninth and Cooper Streets
Camden, New Jersey 08101
Telephone: 609 - 541-6700 TWX: 7108910547

March 16, 1981

NJDEP
Solid Waste Division
32 Hanover Street
Trenton, NJ 08625

Attention: David Schrier, Hazardous Waste Bureau

Reference: PCB results for sample nos. A0329,
B0329 and A0408

The following information supports our recent discussion concerning PCB concentrations in the above referenced samples:

- A0329 (Test Report No. S-1259) - A 10 gram aliquot was used for a soxhlet extraction. Unfortunately the vial for the final extract was incorrectly labeled 1.0 gram aliquot. After GC analysis the 1.0 gram number was used in the calculation resulting in a ten-fold error. The incorrect values of 27,000 ppm as Arochlor 1254 and 23,000 ppm as Arochlor 1254 (confirmatory) should have been 2,700 ppm and 2,300 ppm. The revised test report no. S-1259 is attached.
- B0329 (Test Report No. S-1332) - The PCB result of 2,700 ppm as Arochlor 1254 is correct.
- A0408 (Test Report No. S-1315) - The PCB result of 1,300 ppm as Arochlor 1254 is correct.
- It is SRI's understanding that sample nos. A0329 and A0408 are from the same source. The difference in results (2,700 ppm vs 1,300 ppm) between the two samples represent an expected variability considering the difficulty in mixing and homogenizing viscous samples.

If there are any questions, or if we can be of further assistance please call me.

Sincerely,

STABLEX-REUTTER, INC.

William J. Ziegler
William J. Ziegler
Laboratory Manager

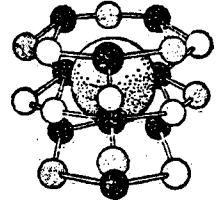
WJZ:dp

Att.: Revised T.R. # S-1259

A-8

A 329 7-25
B " "
A 0330 12-97
B 332 12-97

The Reutter Building, Ninth and Cooper Streets
Camden, New Jersey 08101
Telephone: 609 - 541-6700 TWX: 7108910547



March 16, 1981

NJDEP
Solid Waste Division
32 Hanover Street
Trenton, NJ 08625

Attention: Mr. David Schrier, Hazardous Waste Bureau

Reference: Revised Test Report No. S-1259; Final

This report covers the analysis of six (6) waste samples submitted to Stablax-Reutter, Inc. (SRI) on November 26, 1980. The analysis adhered to procedures as described in the following publications.

- . Standard Methods for the Examination of Water and Wastewater, 14th Edition
- . U.S.E.P.A. Methods for Organochlorine Pesticides and Chlorophenoxy Acid Herbicides in Drinking Water and Raw Surface Water, July, 1978
- . U.S.E.P.A. Analysis of Trihalomethanes in Finished Waters by the Purge and Trap Method, September, 1977

The parameters analyzed and results are delineated in the attached tables. All results are in micrograms of constituent per gram of sample. If you have any questions concerning this analysis, please don't hesitate to contact me.

Respectfully submitted,

STABLEX-REUTTER, INC.

William J. Ziegler

William J. Ziegler
Laboratory Manager

WJZ:dp
Att.

Shaw-Walker Bowler Inc.

NJDEP

Solid Waste Division

Revised Test Report No. S-1259; Final

March 16, 1981

Aromatic Hydrocarbon Screen

<u>Constituent</u>	<u>Sample and Designation</u>				
	<i>81-388-1</i> S1259-1 A0329	<i>81-388-2</i> S1259-2 A0330	<i>81-388-3</i> S1259-3 A0331	<i>7D080</i> S1259-4 A0332	<i>7D083</i> S1259-5 A0333
Benzene	<50	4,300	<50	<50	<50
Toluene	<50	<50	<50	89,000	70
Xylenes, total	1,100	1,900	<50	60	<50
Ethylbenzene	298	1,400	<50	230	<50
Styrene	<50	<50	<50	<50	<50
Trimethyl- benzenes, total	<50	170	<50	<50	<50
Naphthalene	<50	180	<50	<50	<50
Monomethyl- naphthalenes, total	<50	<50	530	<50	730

Volatile Chlorinated Hydrocarbon Screen

<u>Constituent</u>	<u>Sample and Designation</u>				
	S1259-1 A0329	S1259-2 A0330	S1259-3 A0331	S1259-4 A0332	S1259-5 A0333
Methylene Chloride	<10	280	11	<10	<10
Chloroform	<1	<1	<1	870	990
Carbon Tetrachloride	<1	<1	<1	3,200	170
Dibromochloromethane	<10	<10	<10	<10	<10
Bromodichloromethane	<10	<10	<10	<10	<10
1,1,1 Trichloroethane	<1	<1	<1	<1	<1
1,1,2 Trichloroethane	<1	<1	1.5	850	<1
Trichloroethylene	<1	30	<1	<1	<1
Tetrachloroethylene	<1	1	<1	<1	<1
1,2 Dichloroethane	160	200	99	<10	<10

All results are in micrograms of constituent per gram of sample.

Stable- 3 written line.

NJDEP
Solid Waste Division
Revised Test Report No. S-1259; Final
March 16, 1981

Chlorinated Pesticide and PCB* Screen

<u>Constituent</u>	<u>Sample and Designation</u>				
	<u>S1259-1</u> <u>A0329</u>	<u>S1259-2</u> <u>A0330</u>	<u>S1259-3</u> <u>A0331</u>	<u>S1259-4</u> <u>A0332</u>	<u>S1259-5</u> <u>A0333</u>
Aldrin	Δ	Δ	Δ	Δ	<1
Chlordane	Δ	Δ	Δ	Δ	Δ
DDD, total	Δ	Δ	Δ	Δ	<1
DDE, total	Δ	Δ	Δ	Δ	Δ
DDT, total	Δ	Δ	Δ	Δ	Δ
Endrin	Δ	Δ	Δ	Δ	Δ
Lindane	Δ	Δ	Δ	Δ	Δ
Methoxychlor	Δ	Δ	Δ	Δ	Δ
Toxaphene	Δ	Δ	Δ	Δ	Δ
PCB's, total,					
as Arochlor 1254					
on column #1	2,700	Δ	Δ	7	Δ
as Arochlor 1254					
on column #2	2,300	---	---	---	---

* Polychlorinated Biphenyls

All results are in micrograms of constituent per gram of sample.

Shaw-Walker Inc.

NJDEP

Solid Waste Division

Revised Test Report No. S-1259; Final

March 16, 1981

Metal Analysis

Sample and Designation

<u>Constituent</u>	<u>S1259-2</u> <u>A0330</u>	<u>S1259-3</u> <u>A0331</u>	<u>S1259-4</u> <u>A0332</u>	<u>S1259-5</u> <u>A0333</u>
Arsenic, total	<0.1	<0.1	<0.1	<0.1
Beryllium, total	<0.5	<0.5	<0.5	<0.5
Cadmium, total	0.5	43	<0.5	<0.5
Chromium, total	<2.5	<2.5	<2.5	<2.5
Lead, total	<2.5	<2.5	<2.5	<2.5
Mercury, total	<0.2	18	<0.2	<0.2
Selenium, total	0.38	0.22	0.15	0.21
Chromium, Hexavalent	<1	<1	<1	<1
Nickel, total	<2.5	<2.5	<2.5	<2.5

All results are in micrograms of constituent per gram of sample.

Miscellaneous Analysis

Sample and Designation

<u>Constituent</u>	<u>S1259-6</u> <u>A0334</u>
N-Butyl Bromide, %	>95%

A-8



PRINCETON AQUA SCIENCE

789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

September 30, 1981

Mr. Wayne Howitz
N.J. Dept. of Environmental Protection,
Solid Waste Administration
32 East Hanover Street
Trenton, New Jersey 08625

Dear Mr. Howitz:

Analysis of your five samples 81-388-A, 81-388-B, 81-388-C, TD042 and TD043) received September 14, 1981 is complete. Please find the results on the enclosed table. Included are the chromatograms for all analyses.

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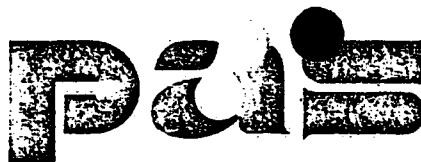
Very truly yours,

PRINCETON AQUA SCIENCE

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John Cirello, Ph.D., P.E.
Vice President

JC/mjs
Enclosure
#1337



PRINCETON AQUA SCIENCE

789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company <u>N.J. Dept. of Environmental Protection</u>	Job #: <u>1337</u>
<u>Solid Waste Administration</u>	Date: <u>9/30/81</u>
Address <u>32 E. Hanover Street</u>	Auth.: <u>29877</u>
	Lot #: <u>600</u>
City <u>Trenton</u> State <u>NJ</u> Zip <u>08625</u>	Invoice #: <u>3588</u>
	Sample Date: <u>9/14/81</u>
To Attn. of: <u>Mr. Wayne Howitz</u>	

REPORT OF ANALYSIS

<u>Purgeable Halocarbons:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
1,1-Dichloroethane	ND	0.097	0.047	ND	ND
Chloroform & 1,2-Dichloroethane	0.500	0.141	0.110	0.042	0.500
1,1,1-Trichloroethane	ND	ND	2.20	ND	ND
Carbon Tetrachloride	ND	2.25	ND	ND	ND
Bromodichloromethane	0.168	ND	ND	ND	ND
Trichloroethylene, Chlorodibromomethane & 1,1,2-Trichloroethane	0.962	0.006	0.272	ND	0.273
1,1,2,2-Tetrachloroethane & Tetrachloroethylene	0.365	0.165	0.088	0.070	0.160
1,3-Dichlorobenzene	0.090	ND	ND	ND	0.309
1,4-Dichlorobenzene	0.193	ND	0.273	ND	3.15
1,2-Dichlorobenzene	0.043	ND	0.042	ND	0.357

ND - Non Detectable less than 0.003 ppm



PRINCETON AQUA SCIENCE

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Company N.J. Dept. of Environmental Protection Job #: 1337
Solid Waste Administration Date: 9/30/81
Address 32 E. Hanover Street Auth.: 29877
City Trenton State NJ Zip 08625 Lot #: 600
Invoice #: 3588
To Attn. of: Mr. Wayne Howitz Sample Date: 9/14/81

REPORT OF ANALYSIS

<u>Purgeable Aromatics:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
Benzene	0.372	0.138	ND	ND	ND
Toluene	ND	ND	0.114	ND	1.46
Chlorobenzene	ND	ND	ND	ND	0.022
Ethylbenzene	ND	ND	0.014	ND	0.230
Total Xylenes	0.180	ND	0.130	ND	1.13
<u>PCB:</u>					
Arochlor 1254	-	0.014	-	-	4.2 ¹

ND - Non Detectable less than 0.003 ppm

¹ - This sample contained a large percent of low boiling point compounds (early peaks). This is indicative of a condensate material.



PRINCETON AQUA SCIENCE

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September 30, 1981

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N.J. Dept. of Environmental Protection,
Solid Waste Administration
32 East Hanover Street
Trenton, New Jersey 08625

Dear Mr. Howitz:

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All determinations were performed in accordance with Standard Methods, 15 Edition (1980), Federal Register December 3, 1979 and Test Methods for Evaluating Solid Waste (EPA 1980). If there are any questions please feel free to contact me.

Very truly yours,

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John Cirello, Ph.D., P.E.
Vice President

JC/mjs
Enclosure
#1337



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Company N.J. Dept. of Environmental Protection Job #: 1337
Solid Waste Administration Date: 9/30/81
Address 32 E. Hanover Street Auth.: 29877
City Trenton State NJ Zip 08625 Lot #: 600
Invoice #: 3588
Sample Date: 9/14/81
To Attn. of: Mr. Wayne Howitz

REPORT OF ANALYSIS

<u>Purgeable Halocarbons:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
1,1-Dichloroethane	ND	0.097	0.047	ND	ND
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Carbon Tetrachloride	ND	2.25	ND	ND	ND
Bromodichloromethane	0.168	ND	ND	ND	ND
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REPORT OF ANALYSIS

<u>Purgeable Aromatics:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
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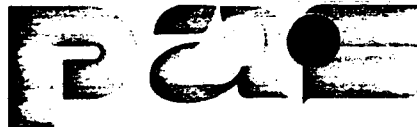
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John Cirello, Ph.D., P.E.
Vice President

JC/mjs
Enclosure
#1337



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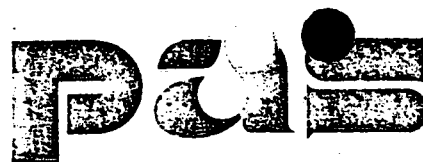
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	<u>Solid Waste Administration</u>	Date:	<u>9/30/81</u>
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		Lot #:	<u>600</u>
City	<u>Trenton</u>	State	<u>NJ</u>
		Zip	<u>08625</u>
		Invoice #:	<u>3588</u>
		Sample Date:	<u>9/14/81</u>
To Attn. of:	<u>Mr. Wayne Howitz</u>		

REPORT OF ANALYSIS

<u>Purgeable Halocarbons:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
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Solid Waste Administration Date: 9/30/81
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City Trenton State NJ Zip 08625 Lot #: 600
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To Attn. of: Mr. Wayne Howitz Sample Date: 9/14/81

REPORT OF ANALYSIS

<u>Purgeable Aromatics:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
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<u>PCB:</u>					
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A-8



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Very truly yours,

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John Cirello, Ph.D., P.E.
Vice President

JC/mjs
Enclosure
#1337



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Company	<u>N.J. Dept. of Environmental Protection</u>	Job #:	<u>1337</u>
	<u>Solid Waste Administration</u>	Date:	<u>9/30/81</u>
Address	<u>32 E. Hanover Street</u>	Auth.:	<u>29877</u>
		Lot #:	<u>600</u>
City	<u>Trenton</u>	State	<u>NJ</u>
		Zip	<u>08625</u>
		Invoice #:	<u>3588</u>
To Attn. of:	<u>Mr. Wayne Howitz</u>	Sample Date:	<u>9/14/81</u>

REPORT OF ANALYSIS

<u>Purgeable Halocarbons:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
1,1-Dichloroethane	ND	0.097	0.047	ND	ND
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1,1,1-Trichloroethane	ND	ND	2.20	ND	ND
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Bromodichloromethane	0.168	ND	ND	ND	ND
Trichloroethylene, Chlorodibromomethane & 1,1,2-Trichloroethane	0.962	0.006	0.272	ND	0.273
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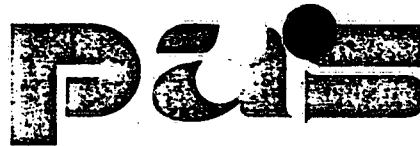
REPORT OF ANALYSIS

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<u>PCB:</u>					
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A-8



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REPORT OF ANALYSIS

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1,3-Dichlorobenzene	0.090	ND	ND	ND	0.309
1,4-Dichlorobenzene	0.193	ND	0.273	ND	3.15
1,2-Dichlorobenzene	0.043	ND	0.042	ND	0.357

ND - Non Detectable less than 0.003 ppm



PRINCETON AQUA SCIENCE

789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company N.J. Dept. of Environmental Protection Job #: 1337
Solid Waste Administration Date: 9/30/81
Address 32 E. Hanover Street Auth.: 29877
City Trenton State NJ Zip 08625 Lot #: 600
Invoice #: 3588
Sample Date: 9/14/81
To Attn. of: Mr. Wayne Howitz

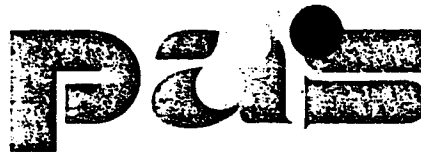
REPORT OF ANALYSIS

<u>Purgeable Aromatics:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
Benzene	0.372	0.138	ND	ND	ND
Toluene	ND	ND	0.114	ND	1.46
Chlorobenzene	ND	ND	ND	ND	0.022
Ethylbenzene	ND	ND	0.014	ND	0.230
Total Xylenes	0.180	ND	0.130	ND	1.13
<u>PCB:</u>					
Arochlor 1254	-	0.014	-	-	4.2 ¹

ND - Non Detectable less than 0.003 ppm

¹ - This sample contained a large percent of low boiling point compounds (early peaks). This is indicative of a condensate material.

Ar 8



PRINCETON AQUA SCIENCE

789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

September 30, 1981

Mr. Wayne Howitz
N.J. Dept. of Environmental Protection,
Solid Waste Administration
32 East Hanover Street
Trenton, New Jersey 08625

Dear Mr. Howitz:

Analysis of your five samples 81-388-A, 81-388-B, 81-388-C, TD042 and TD043) received September 14, 1981 is complete. Please find the results on the enclosed table. Included are the chromatograms for all analyses.

All determinations were performed in accordance with Standard Methods, 15 Edition (1980), Federal Register December 3, 1979 and Test Methods for Evaluating Solid Waste (EPA 1980). If there are any questions please feel free to contact me.

Very truly yours,

PRINCETON AQUA SCIENCE

A handwritten signature in black ink, appearing to read 'John Cirello', is written over the typed name.

John Cirello, Ph.D., P.E.
Vice President

JC/mjs
Enclosure
#1337



PRINCETON AQUA SCIENCE

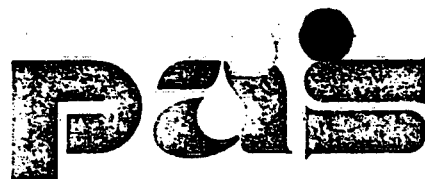
789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company	<u>N.J. Dept. of Environmental Protection</u>	Job #:	<u>1337</u>
	<u>Solid Waste Administration</u>	Date:	<u>9/30/81</u>
Address	<u>32 E. Hanover Street</u>	Auth.:	<u>29877</u>
		Lot #:	<u>600</u>
City	<u>Trenton</u>	State	<u>NJ</u>
		Zip	<u>08625</u>
		Invoice #:	<u>3588</u>
		Sample Date:	<u>9/14/81</u>
To Attn. of:	<u>Mr. Wayne Howitz</u>		

REPORT OF ANALYSIS

<u>Purgeable Halocarbons:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
1,1-Dichloroethane	ND	0.097	0.047	ND	ND
Chloroform & 1,2-Dichloroethane	0.500	0.141	0.110	0.042	0.500
1,1,1-Trichloroethane	ND	ND	2.20	ND	ND
Carbon Tetrachloride	ND	2.25	ND	ND	ND
Bromodichloromethane	0.168	ND	ND	ND	ND
Trichloroethylene, Chlorodibromomethane & 1,1,2-Trichloroethane	0.962	0.006	0.272	ND	0.273
1,1,2,2-Tetrachloroethane & Tetrachloroethylene	0.365	0.165	0.088	0.070	0.160
1,3-Dichlorobenzene	0.090	ND	ND	ND	0.309
1,4-Dichlorobenzene	0.193	ND	0.273	ND	3.15
1,2-Dichlorobenzene	0.043	ND	0.042	ND	0.357

ND - Non Detectable less than 0.003 ppm



PRINCETON AQUA SCIENCE

789 Jersey Avenue • P.O. Box 151 • New Brunswick, New Jersey 08902 • Telephone (201) 846-8800

Company N.J. Dept. of Environmental Protection Job #: 1337
Solid Waste Administration Date: 9/30/81
Address 32 E. Hanover Street Auth.: 29877
City Trenton State NJ Zip 08625 Lot #: 600
Invoice #: 3588
Sample Date: 9/14/81
To Attn. of: Mr. Wayne Howitz

REPORT OF ANALYSIS

<u>Purgeable Aromatics:</u>	<u>81-388-C</u> <u>(ppm)</u>	<u>81-388-B</u> <u>(ppm)</u>	<u>81-388-A</u> <u>(ppm)</u>	<u>TD043</u> <u>(ppm)</u>	<u>TD042</u> <u>(ppm)</u>
Benzene	0.372	0.138	ND	ND	ND
Toluene	ND	ND	0.114	ND	1.46
Chlorobenzene	ND	ND	ND	ND	0.022
Ethylbenzene	ND	ND	0.014	ND	0.230
Total Xylenes	0.180	ND	0.130	ND	1.13
<u>PCB:</u>					
Arochlor 1254	-	0.014	-	-	4.2 ¹

ND - Non Detectable less than 0.003 ppm

¹ - This sample contained a large percent of low boiling point compounds (early peaks). This is indicative of a condensate material.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
BUREAU OF COMPLIANCE AND TECHNICAL SERVICES
DATA REVIEW FORM

LABORATORY CONTRACT X-085

CASE NAME: PERK CHEMICAL - ELIZABETHDHWM NUMBER: 20-D4CINVESTIGATOR: MARY BEARDIANCONTRACT LABORATORY: S-R ANALYTICAL INC.LABORATORY TEST REPORT #: SR13225

	<u>YES</u>	<u>NO</u>
SPILL FUND	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OTHER - FACILITY	<input checked="" type="checkbox"/>
------------------	-------------------------------------

INVOICE # _____

TOTAL AMOUNT _____

DEBUSTABLE TEIR I DELIVERABLE	<input type="checkbox"/>
----------------------------------	--------------------------

DEBUSTABLE TEIR II DELIVERABLE	<input checked="" type="checkbox"/>
-----------------------------------	-------------------------------------

QA REVIEWERS: BRIAN L. CRISAFULLI

<u>SAMPLE #</u>	<u>TEST REPORT #</u>
<u>GEB 003</u>	<u>SR13225-1</u>
<u>GEB 004</u>	<u>SR13225-2</u>

SAMPLE POINT

from - NJA 0285230 - combust. liquid - NOS - 0001
from - NJA 0285299 - waste 111 - trichloroethane +
petro. naphtha - F001, 001

A-8

SAMPLE #	TEST REPORT #	SAMPLE MATRIX		BLANK
		AQUEOUS	NONAQUEOUS	
1) GEB003	SR13225-1		✓	
2) GEB004	SR13225-2		✓	
3)				
4)				
5)				
6)				
7)				
8)				
9)				
10)				

A-8

Instrument ID: 5100
 Lab ID: BFBB1004A
 Date: 10/4/86
 Time: 8:31:00

7.9.2.2. PURGEABLE ORGANICS - GC/MS

a. GC/MS Tune Performance Check

Has the laboratory met the ion abundance criteria listed in method 624, for a, ng injection of p-bromofluorobenzene (BFB)?

MASS	ION ABUNDANCE	% RANGE
50	15-40% of mass 95	19.98
75	30-60% of mass 95	50.09
95	Base peak, 100% rel. abundance	100.00
96	5-9% of mass 95	7.24
173	< 2% of mass 174	0.00
174	> 50% of mass 95	72.83
175	5-9% of mass 174 3.19 - 6.554	(7.936) (1) 5.78
176	> 95% but < 101% of mass 174 69.198 - 73.558	(92.02) (1) 70.66
177	5-9% of mass 176 3.533 - 6.359	(7.005) (2) 4.95

(1) Value is % of mass 174. (2) Value is % of mass 176.

This performance applies to the following:

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
20 ug/l STD	VB1004A20	10/4/86	9:03
500 ug/l STD	VB1004A15	10/4/86	9:45
100 ug/l STD	VB1004A2	10/4/86	10:53
150 ug/l STD	VB1004A12	10/4/86	11:36
200 ug/l STD	VB1004A5	10/4/86	12:24

A-8

VOLATILE FRACTION

GC/MS Tune Check - BFB

Is the mass calibration in error?

Y

N

If yes, all data associated with this tune is rejected (R). List those samples rejected:

Has the ion abundance criteria been met?

If no, all data associated with this tune is rejected (R).

The BFB performance results were reviewed and found to be within the specified limits.

If no, non-payment of 100% invoice as per section 5.29.3.1 GC/MS tune performance does not meet the required specifications.

5013225 / GEB003
 PERU CHEMICAL - ELIZABETH / GEB004
 20-04C
 PAGE 5V

Instrument ID: 5100
 Lab ID: BFB1010P
 Date: 10/10/86
 Time: 14:36:00

7.9.2.2. PURGEABLE ORGANICS - GC/MS

a. GC/MS Tune Performance Check

Has the laboratory met the ion abundance criteria listed in method 624, for a, ng injection of p-bromofluorobenzene (BFB)?

MASS	ION ABUNDANCE	% RANGE
50	15-40% of mass 95	17.95
75	30-60% of mass 95	55.34
95	Base peak, 100% rel. abundance	100.00
96	5-9% of mass 95	8.49
173	<2% of mass 174	0.00
174	>50% of mass 95	51.59
175	5-9% of mass 174 2.579 - 4.643	(750) (1) 3.88
176	>95% but <101% of mass 174 49.01 - 52.105	(95.43) (1) 49.49
177	5-9% of mass 176 2.474 - 4.474	(756) (2) 3.72

(1) Value is % of mass 174. (2) Value is % of mass 176.

This performance applies to the following:

SAMPLE ID	LAB ID	DATE OF ANALYSIS	TIME OF ANALYSIS
200 ng/l Std	BFB1010P20	10/10/86	15:05
NA BFB	BFB1010P	10/10/86	16:01
13225-1	13225V1	10/10/86	20:31
13225-2	13225V2	10/10/86	21:13
13225-1R	13225V1R	10/10/86	22:40
13225-1R2	13225V1R2	10/10/86	23:22
13225-2R	13225V2R	10/11/86	00:08
13225-2R2	13225V2R2	10/11/86	00:50
13225-2R3	13225V2R3	10/11/86	01:31

A-8

VOLATILE FRACTION

GC/MS Tune Check - BFB

Y

N

Is the mass calibration in error?

If yes, all data associated with this tune is rejected (R). List those samples rejected:

Has the ion abundance criteria been met?

If no, all data associated with this tune is rejected (R).

The BFB performance results were reviewed and found to be within the specified limits.

If no, non-payment of 100% invoice as per section 5.29.3.1 GC/MS tune performance does not meet the required specifications.

VOLATILES

Initial calibration (volatile fraction) has the percent relative standard deviation (% RSD) been calculated for the following calibration check compounds.

	% RSD	Y	N
1) Vinyl Chloride	<u>23.7%</u>	<u>✓</u>	<u> </u>
2) 1,1-Dichloroethene	<u>15.4%</u>	<u>✓</u>	<u> </u>
3) Chloroform	<u>14.4%</u>	<u>✓</u>	<u> </u>
4) 1,2-Dichloropropane	<u>13.6%</u>	<u>✓</u>	<u> </u>
5) Toluene	<u>19.8%</u>	<u>✓</u>	<u> </u>
6) Ethylbenzene (CLP Only)	<u>12.5%</u>	<u>✓</u>	<u> </u>

7.9.2.2(b).

For each CCC, the % RSD must be less than 30%

✓

If no, reject the volatile fraction. R all negative values. J all positive values.

100% of the invoice amount will be withheld. In accordance with 5.29.3.1.(b).

A-8

VOLATILES

b) Initial Calibration

Date: 10/4/86

Time: 9:03-12:24

Instrument ID #2 5100B

Calibrated Correspondence to GC/MS Tune Performed on 10/4/86.

Y

N

Was calibration performed at:

Three concentration levels (_____,
, and N/A)

OR

Five concentration levels

20, 50, 100, 150, 200.

Have the (RF) response factors for each compound been calculated at each concentration level?

If no, J all positive values and R negative values (only for compounds effected).

[illegible]

VOLATILES

Initial Calibration (% RSD)

Does any compound have a % RSD for response factor greater than 30% RSD?

Y

N

If yes:

- 1) Flag positive results for that compound as estimated (J).
- 2) List those compounds:

COMPOUNDFLAG

METHYLENE CHLORIDE	J

Have average response factors for the following system performance check compounds (SPCC) been calculated:

- 1) Chloromethane (0.300)
- 2) 1,1-Dichloroethane (0.300)
- 3) Bromoform (0.250)
- 4) 1,1,2,2-Tetrachloroethane (0.300)
- 5) Chlorobenzene (0.300)

AVG. RF

0.432

1.213

0.309

0.390

0.509

7.9.3.2.C Minimum acceptance AVG. RF is 0.300 (Bromoform 0.250). Does any SPCC not meet this criteria?

A-8

VOLATILES

If no, flag all positive values as rejected.

5.29.3.1 Non-payment of 100% of invoice amount (per fraction) the instrument calibration is outside the required specification in section 7.9. List those samples rejected:

N/A

Y

N

Do all compounds have a AVG RF greater than 0 (0.05 for HSL compounds)?

☒ ☐

If no:

- 1) Flag all positive results as estimated (J).
- 2) Flag all negative results as rejected (R).

List sample numbers affected:

N/A

Volatile Fraction:Continuing Calibration

Has the ^{average} response factor been calculated for the following SPCC:

	RF	Y	N
Chloromethane	<u>0.432</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1,1-Dichloroethane	<u>1.213</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bromoform	<u>0.309</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
1,1,2,2-Tetrachloroethane	<u>0.390</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chlorobenzene	<u>0.509</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Does any SPCC have a RF less than 0.300 (bromoform 0.250)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>

If yes:

- 1) Flag positive results for that compound as estimated (J).
- 2) Flag negative results for that compound as rejected (R).

List sample numbers effected:

N/A

Has the RF been calculated for all non SPCC compounds?

☒ ☐

If no, reject (R) those compounds.

Sample #

Compound Rejected

N/A

A-8

VOLATILE FRACTION CONTINUING CALIBRATION

Y N

Are any compounds identified with a RF less than 0.05?

☐ ☒

If yes:

- 1) Flag positive results as estimated (J).
- 2) Flag negative results as rejected (R).

COMPOUNDFLAG (J OR R)

N/A

VOLATILE FRACTION

CONTINUING CALIBRATION

Y N

Has the percent difference (% D) been calculated for the following CCC?

☒ ☐

Compound	Average RF Initial	RF ⁽⁵⁰⁾ Continuing	% D	% D Greater than 25%
Vinyl Chloride	0.419	0.394	6.0	NO
1,1-Dichloroethene	0.478	0.437	8.6	NO
1,2-Dichloropropane	0.180	0.178	1.1	NO
Toluene	0.329	0.285	13.4	NO
Ethylbenzene	0.232	0.225	3.0	NO

$$\%D = [RF_i - RF_c / RF_i] 100$$

7.9.2.2.C

Y N

For each CCC is the % D less than 25%?

☒ ☐

If no reject fraction (0 out of 5 CCC shall have a % D greater than 25%.

Non payment of 100% invoice (per fraction amount 5.29.3.1(b)).

N/A

Sample numbers rejected.

A-8

Volatile Surrogate Spike

Check Surrogates
Used

☒ Toluene-d₈ (HSL & 624)
☒ 4,Bromofluorobenzene (HSL & 624)
☒ 1,2-Dichloroethane-d₄ (HSL & 624)
☐ 1,4-Difluorobenzene (624)
☐ Ethylbenzene d-5 (624)
☐ Ethylbenzene d-10 (624)
☐ Fluorobenzene (624)
☐ Pentafluorobenzene (624)

% R

% R Within Control
Limits *

81 - 117

74 - 121

70 - 121

* AVG. % R = R

Upper Control Limit = Rt+3S

Lower Control Limit = R-3S

Did the laboratory perform a surrogate spike on the following:

	Y	N
1) Sample	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2) Matrix Spike	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3) Matrix Spike Duplicate	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4) Blank	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Spike Performed On	Surrogate Used % R			% R Met	
	1,2-Dichloroethane-d ₄	4-Bromofluorobenzene	Toluene-d ₈	Y	N
METHOD BLANK	99	96	91	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SR13235-1 SPIKE	106	96	82	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SR13235-1 SPIKE DIL.	105	94	83	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SR13225-1	92	98	92	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SR13225-2	91	98	92	<input checked="" type="checkbox"/>	<input type="checkbox"/>

VOLATILES

Did the laboratory perform a matrix spike/matrix spike duplicate analysis (MS, MSD)?

Y ✓ N

If no:

- 1) Flag all positive data as estimated (J).
- 2) Flag all negative data as (R).

Matrix spike compounds - recalculate the percent recoveries as follows:

Amount of spike recovered. This is read directly from quan reports x 100 = amount injected. 6000

Recalculate percent recoveries for the following volatile compounds:

	% RMS	% RMD	RPD SR/CALC	Values Agree
				Y N
1,1-Dichloroethane	<u>97</u>	<u>98</u>	<u>0/1.025</u>	<u>✓</u>
Trichloroethene	<u>108</u>	<u>110</u>	<u>2/1.834</u>	<u>✓</u>
Benzene	<u>117</u>	<u>116</u>	<u>1/0.858</u>	<u>✓</u>
Toluene	<u>117</u>	<u>115</u>	<u>2/1.724</u>	<u>✓</u>
Chlorobenzene	<u>108</u>	<u>109</u>	<u>1/0.921</u>	<u>✓</u>

$$RPD = \frac{\% RMS - \% RMSD}{(\% RMS + \% RMSD)/2} \times 100$$

BLANKS

Reagent Blank Analysis

Was a reagent blank performed within 12 hours, or once per case or with every 20 samples?

	Y	N	N/A
1) Volatiles	<u>✓</u>	<u> </u>	<u> </u>
2) Semi Volatiles	<u> </u>	<u> </u>	<u>✓</u>

Does the blank contain less than five times the CRDL of methylene chloride, acetone, benzene, toluene and/or phthalate esters?

Y	N
<u>✓</u>	<u> </u>

If yes, flag:

1) All positive results as estimated (J,B).

2) All negative results as estimated (J,B).
(ETHYL BENZENE 210 J)

Check to ensure that the laboratory did not subtract the blank contamination from the result.

<u> </u>	<u>✓</u>
---------------	----------

If yes, reject the compounds where contamination was identified (R).

Analysis

Attachment: J

*

20-06

ADM 12

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Kevin Gashlin

FROM Tom Toney

DATE 11/2/81

SUBJECT Park Chemical - Sampling

Areas to be sampled are as follows;

- ① Virgin product tanks - 2 - (see map)
- ② Scale sump
- ③ Dump tank
- ④ Receiver A + B
- ⑤ Water separator
- ⑥ Non contact cooling water now being recycled through tank trailer
- ⑦ Random sample of incoming drum load to check generator analysis and facility analysis
- ⑧ Random sample of drums stored on site - oil and water drums
- ⑨ Any mobil storage trailer on site

Depending on the specific area sampled, samples should be run for flash, BTU value, PCB's, % organic chlorides and % organic bromide.

Sampling should take a three man team about four hours.

Equipment should include sampling bomb and about two dozen glass jars.

Depending on sample results, facility should be sampled twice a year.

A-8

NOT TO SCALE

HAZARDOUS CHEMICAL

ELIZABETH

INSPECTION

Trailer Storage

TANK TRAILER

PARTS STORAGE

SAWDUST

PALETS STORAGE

TIRES

DRUM STAGING AREA FOR INCOMING MATERIAL

DRUM STORAGE AREA

DRUM STORAGE AREA

UNPAVED

DRUM STORAGE AREA

①

15,000 gal Trichloroethylene

CEMENT PIT

DRUM STORAGE AREA

TIRE TRAILER

TRAILER PARKING

EMPTY DRUM STORAGE

OFFICE

②

Truck Scale

PROCESS BLDG

Recovery A
Recovery B
A
B

Condensing Air
Turbine
Compressor

①
12,000 gal Trichloroethylene

Separator

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO _____ Ralph Pasceri, Ron Corcorry, Wayne Howitz, Tom Brady, Tom Downey, Boleslaw Czachor

FROM _____ Timothy McGuinness *TM* DATE _____ October 16, 1981

SUBJECT _____ CLASSIFICATION OF SAMPLES

As per Wayne's October 13, 1981 memo, please be advised of the following classifications:

BC012	non-hazardous
BC014	non-hazardous
BC036	non-hazardous
81-388-A	non-hazardous
81-388-B	non-hazardous
81-388-3	non-hazardous
TD042	non-hazardous
TD043	non-hazardous
TB073	hazardous - EP toxic
TB074	hazardous - EP toxic
TB075	hazardous - EP toxic
TB076	hazardous - EP toxic
TB077	hazardous - EP toxic

NOTE: Samples BC012 and BC014 are high in selenium and should be tested for EP toxicity.

TM:ps

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO: Tim McGuinness

FROM: Wayne Howitz

SUBJECT: Classification of sample results

Attached are sample results that require a hazardous or non-hazardous classification.

Sample Number	Case Name	Source	HM/EF #
---------------	-----------	--------	---------

BC-012	Asarco	Cooling pond	12-80
BC-014	Asarco	Floor deposits	12-80
BC-036	Rotorclip	Dump pit	18-20
81-388-A	Perk	Discharge hose	20-06
81-388-B	Perk	Sump	20-06
81-388-C	Perk	Discharge hose	20-06
TD042	Perk	Scale sump	20-06
TD043	Perk	Unpaved area in	20-06
TB073	Mobil Chemical	Roll off dumpster	12-88
TB074	Mobil Chemical	Roll off dumpster	12-88
TB075	Mobil Chemical	Roll off dumpster	12-88
TB076	Mobay Chemical	Dumpster	10-73
TB077	Mobay Chemical	Spill	10-73

Wayne Howitz
Wayne Howitz

WH:sm

Attachment

cc: Boleslaw Czachor
Tom Brady
Tom Downey

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION



RECEIPT FOR PROPERTY

DESIGNATION OF RECEIVING HEADQUARTERS NJ DEP DWM NJ410 Field Office		COMPLAINT OR CASE NR (If any) 20-01-C
LOCATION Orange		
NAME OF PERSON FROM WHOM PROPERTY IS OBTAINED OWNER OTHER Chief Chemist		ADDRESS (Include ZIP Code) 217 S FIRST ST LINDEN
LOCATION OF PROPERTY NJ DEP DWM 217 S FIRST ST LINDEN		
PURPOSE FOR WHICH OBTAINED NJ DEP Sampling		

ITEM NO.	QUANTITY	DESCRIPTION OF ARTICLES (Include model, serial Nr, Identifying marks, condition, and value, when appropriate)
1	1	1- 950 ml Bottle containing A BROWN LIQUID DENOTED GEB 003
L 1	1	1- 950 ml Bottle containing A BROWN LIQUID DENOTED GEB 004
Z 10 D		

CHAIN OF CUSTODY			
DATE TIME	RELINQUISHED BY	RECEIVED BY	PURPOSE OF CHANGE OF CUSTODY
	TYPED NAME JOHN J. JACOBI	TYPED NAME G. J. BERNARDIAN	Taking of sample
	SIGNATURE <i>[Signature]</i>	SIGNATURE <i>[Signature]</i>	
	TYPED NAME J. E. Hill	TYPED NAME M. L. Hill	
	SIGNATURE <i>[Signature]</i>	SIGNATURE <i>[Signature]</i>	
	TYPED NAME Mike Goss	TYPED NAME Bernadette Fini	Received by LOB
	SIGNATURE <i>[Signature]</i>	SIGNATURE <i>[Signature]</i>	
	TYPED NAME BERNADETTE FINI	TYPED NAME RICHARD LAGUNILLA	by EP PROC.
	SIGNATURE <i>[Signature]</i>	SIGNATURE <i>[Signature]</i>	

CONTINUING CALIBRATION CHECK VOLATILE HSL COMPOUNDS

Region: SE Calibration Date: 10/10/88
 S-P ANALYTICAL Time: 15:05
 Laboratory ID: VB1010P20
 Initial Cali. Date: 10/04/88

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

	AVE RF	RF (50)	% D	CCC	SPCC
methane	0.432	0.354	18.1		* *
ethane	0.546	0.342	37.4		
chloride	0.419	0.394	6.0	*	
ane	0.240	0.237	1.3		
trichloride	0.648	0.464	28.4		
disulfide					
chloroethene	0.478	0.437	8.6	*	
1,1-dichloroethane	0.213	1.014	16.4		* *
1,2-dichloroethene	0.616	0.698	-13.3		
form	1.645	1.491	9.4	*	
chloroethane	0.996	0.798	19.9		
ane					
trichloroethane	0.239	0.298	-24.7		
tetrachloride	0.211	0.285	-35.1		
acetate					
chloromethane	0.395	0.448	-13.4		
1,1-dichloropropane	0.180	0.178	1.1	*	
1,2-dichloropropane	0.254	0.321	-26.4		
chloroethene	0.220	0.265	-20.5		
chloromethane	0.314	0.366	-16.6		
trichloroethane	0.179	0.200	-11.7		
ane	0.400	0.384	4.0		
1,2-dichloropropane	0.149	0.143	4.0		
ethyl vinyl ether	0.095	0.092	3.2		
acetone	0.309	0.304	1.6		* *
2-pentanone					
chloroethene	0.321	0.236	26.5		
1,2,2-Tetrachloroethane	0.390	0.332	14.9		* *
ane	0.329	0.285	13.4	*	
benzene	0.509	0.494	2.9		* *
benzene	0.232	0.225	3.0	*	
enes					
chlorobenzenes					

- Response Factor from daily standard file at 50 ug/l
- Average Response Factor from initial calibration Form VI
- Percent Difference
- Calibration Check Compounds (*)
- System Performance Check Compounds (**)
- Minimum RF for Bromoform is 0.250

21

5:00 PM

Classification Date: 10/04/92

Max RESP for CCC is 30%

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Form VI

VI. Quality Assurance Data (CONT'D)

Other Analyses

Petroleum Hydrocarbons by GC

Nonaqueous Matrix Spike/Matrix Spike Duplicate Recovery Data

Metals Sample Spiked SR13225-1

<u>Constituent</u>	<u>Amount of Spike</u>	<u>% Recovery</u>		<u>% RPD</u>
		<u>MS</u>	<u>MSD</u>	
#2 Fuel Oil	1,100	72	74	2.7
Units	(ug)			

VI. Quality Assurance Data (CONT'D)

RCRA Analyses

Metals (EP Extractable)

Matrix Spike/Matrix Spike Recovery Data

Metals Sample Spiked SR13225-2

<u>Constituent</u>	<u>Amount of Spike</u>	<u>% Recovery</u>		<u>% RPD</u>	<u>Acceptability Limits</u>
		<u>MS</u>	<u>MSD</u>		<u>% Recovery</u>
Arsenic	500	98	96	2.3	76-122
Barium	500	87	95	8.8	80-118
Cadmium	500	84	87	3.5	78-104
Chromium	500	89	89	0	79-103
Lead	500	89	88	1.1	75-101
Mercury	20	111	98	12	74-130
Selenium	500	104	110	5.6	86-118
Silver	500	16	16	0	40-130
Units	(ug)				

Recovery: 2 out of 16 outside limits

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VI. Quality Assurance Data (CONT'D)

Volatile Organics

Nonaqueous Surrogate Recovery Data

Sample Designation	Amount Added, ug	<u>Surrogate % Recovery</u>		
		<u>1,2-Dichloroethane-d₄</u>	<u>Toluene-d₈</u>	<u>4-Bromofluorobenzene</u>
method blank	250	91	99	96
SR13235-1 Spike	250	82	106	96
SR13235-1 Spike Dup.	250	83	105	94
SR13225-1	250	92	92	98
SR13225-2	250	92	91	98
Acceptability Limits		70-121	81-117	74-121

0 out of 15 surrogate recoveries are outside acceptability limits.

VI. Quality Assurance DataPriority Pollutant AnalysesVolatile OrganicsNonaqueous Matrix Spike/Matrix Spike Duplicate Recovery DataSample Spiked SR13235-1Acceptability Limits

<u>Constituent</u>	<u>Amount of Spike</u>	<u>% Recovery</u>		<u>% RPD</u>	<u>Max. % RPD</u>	<u>% Recovery</u>
		<u>MS</u>	<u>MSD</u>			
Chloromethane	0.25	42	24	56	30	23-161
Bromomethane	0.25	93	98	5	30	76-124
Vinyl Chloride	0.25	74	56	28	30	51-133
Chloroethane	0.25	81	78	5	30	80-130
Methylene Chloride	0.25	96	98	3	30	82-136
1,1-Dichloroethene	0.25	127	127	0	30	91-109
1,1-Dichloroethane	0.25	97	98	0	30	94-112
trans-1,2-Dichloroethene	0.25	105	105	0	30	92-110
Chloroform	0.25	94	95	1	30	91-117
1,2-Dichloroethane	0.25	87	89	2	30	89-119
1,1,1-Trichloroethane	0.25	91	94	3	30	88-120
Carbon Tetrachloride	0.25	67	74	10	30	81-115
Bromodichloromethane	0.25	90	93	4	30	86-112
1,2-Dichloropropane	0.25	112	111	1	30	93-117
trans-1,3-Dichloropropene	0.25	95	97	2	30	83-111
Trichloroethene (TCE)	0.25	108	110	2	30	90-120
Dibromochloromethane	0.25	84	90	8	30	76-110
1,1,2-Trichloroethane	0.25	127	128	1	30	85-115
Benzene	0.25	117	116	1	30	93-115
cis-1,3-Dichloropropene	0.25	90	94	5	30	74-110
2-Chloroethyl Vinyl Ether	0.25	105	108	3	30	45-151
Bromoform	0.25	57	66	15	30	67-109
Tetrachloroethene	0.25	97	150	2	30	92-114
1,1,2,2-Tetrachloroethane	0.25	122	127	4	30	68-122
Toluene	0.25	117	115	2	30	94-120
Chlorobenzene	0.25	108	109	1	30	97-115
Ethyl Benzene	0.25	107	107	1	30	96-118

Units (ug)

Recovery: 14 out of 54 outside limits% RPD: 1 out of 27 outside limits

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V. Analytical Results (CONT'D)

Other Analyses

Petroleum Hydrocarbons by GC

<u>Sample Designation</u>	<u>Parameter</u>		
	<u>Kerosene</u>	<u>#2 Fuel Oil</u>	<u>Gasoline</u>
method blank	5,000U	5,000U	5,000U
SR13225-1 GEB 003	20,000U	20,000U	20,000U
SR13225-2 GEB 004	25,000U	1,050,000	25,000U
Units	(ug/kg)	(ug/kg)	(ug/kg)

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

V. Analytical Results (CONT'D)

RCRA Analyses

Metals (EP Extractable)

<u>Constituent</u>	<u>Method</u> <u>Blank</u>	<u>Sample Designation</u>	
		<u>SR13225-2</u> <u>GEB 004</u>	<u>EP Toxicity</u> <u>Limits</u>
Arsenic	500U	500U	5,000
Barium	10,000U	10,000U	100,000
Cadmium	100U	100U	1,000
Chromium	500U	110J	5,000
Lead	1,000U	1,000U	5,000
Mercury	20U	20U	200
Selenium	300U	300U	1,000
Silver	500U	500U	5,000
Units	(ug/l)	(ug/l)	(ug/l)

J • Constituent detected but below the MDL. Quantitation is approximate.

U • Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

Flashpoint

<u>Parameter</u>	<u>Sample Designation</u>	
	<u>SR13225-1</u> <u>GEB 003</u>	<u>SR13225-2</u> <u>GEB 004</u>
Flashpoint, closed cup, °F	>180; 180*	86

*Duplicate Analysis

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V. Analytical Results

Priority Pollutant Analyses

Volatile Organics

<u>Constituent</u>	<u>Method</u> <u>Blank</u>	<u>Sample Designation</u>	
		SR13225-1 GEB 003	SR13225-2 GEB 004
Chloromethane	330U	330U	33,000,000U
Bromomethane	330U	330U	33,000,000U
Vinyl Chloride	330U	330U	33,000,000U
Chloroethane	330U	330U	33,000,000U
Methylene Chloride*	330U	330U	33,000,000U
1,1-Dichloroethene	330U	330U	33,000,000U
1,1-Dichloroethane	330U	330U	33,000,000U
trans-1,2-Dichloroethene	330U	330U	33,000,000U
Chloroform	330U	330U	33,000,000U
1,2-Dichloroethane	330U	330U	33,000,000U
1,1,1-Trichloroethane	330U	12,000	530,000,000-
Carbon Tetrachloride	330U	330U	33,000,000U
Bromodichloromethane	330U	330U	33,000,000U
1,2-Dichloropropane	330U	330U	33,000,000U
trans-1,3-Dichloropropene	330U	330U	33,000,000U
Trichloroethene	330U	330U	33,000,000U
Dibromochloromethane	330U	330U	33,000,000U
1,1,2-Trichloroethane	330U	330U	33,000,000U
Benzene	330U	330U	33,000,000U
cis-1,3-Dichloropropene	330U	330U	33,000,000U
2-Chloroethyl Vinyl Ether	330U	330U	33,000,000U
Bromoform	330U	330U	33,000,000U
Tetrachloroethene	330U	330U	33,000,000U
1,1,2,2-Tetrachloroethane	330U	330U	33,000,000U
Toluene*	330U	4,200	57,000,000
Chlorobenzene	330U	330U	33,000,000U
Ethyl Benzene	210J	2,400	33,000,000U
Units	(ug/kg)	(ug/kg)	(ug/kg)

*Identification of these compounds at low levels is sometimes attributed to laboratory contamination.

J - Constituent detected but below the MDL. Quantitation is approximate.

U - Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

W. Nonconformance Summary

Volatile Organics

Samples # 1, 2, MS and MSD

I. Initial Calibration Curve

1. Maximum %RSD not met for _____ out of 6 CCC's.
X 2. Minimum response factor not met for 2 out of 5 SPCC's.
X 3. %RSD >30 for 1 out of 21 non-CCC's.
4. Response factor <0.05 for _____ out of _____ non-SPCC's.

II. Calibration Curve Check Standard

5. Maximum %D not met for _____ out of 6 CCC's.
6. Minimum response factor not met for _____ out of 5 SPCC's.
X 7. %D >25 for 5 out of 21 non-CCC's.
8. Response factor <0.05 for _____ out of _____ non-SPCC's.

III. Surrogate Recoveries

9. Recovery limits not met for _____ of 3 surrogates for sample(s) _____.
10. Recovery limits not met for _____ of 3 surrogates for sample(s) _____.

Comments _____

IV. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

- X 11. Recovery limits not met for 7 out of 27 spiked compounds in MS.
X 12. Recovery limits not met for 8 out of 27 spiked compounds in MSD.
X 13. Maximum %RPD not met for 2 out of 27 compounds in MS/MSD.
14. Recovery data not available for the following parameters _____
due to high concentration of these analytes in the sample.

Comments _____

V. Samples

- X 15. High detection limits due to dilution for sample(s) 2.
16. High detection limits due to matrix interference for sample(s) _____.
17. Holding times not adhered to for sample(s) _____.
X 18. 2 out of 21 targetted compounds present in matrix blank.
19. _____ nontargetted compounds present in matrix blank.
20. Sample(s) _____ were submitted with headspace in sample vial.
21. Sample(s) not submitted in vials.

Comments Compounds found in blank are below detection limit.

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III. Laboratory Chronicle

Date of Sampling 9/30/86

Date of Preservation 9/30/86

Laboratory Receiver and Date Bernadette Fini 10/2/86

Extractions

Volatile Organics 10/9/86

Organic Analyses

Volatile Organics 10/10/86

Petroleum Hydrocarbons by GC 10/21/86

Supervisor(s) Review and Approval Patricia Swaddell

Charles F. Dineen

Inorganic Analyses

EP Procedure 10/17 and 10/22/86

Flashpoint 10/13/86

Supervisor Review and Approval Jesus A. de Andino

NJDEP/DWM
Test Report No. SR13225
October 27, 1986
Page 1

I. Sample Designations

<u>Client Designation</u>	<u>SR Designation</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Submitted to Laboratory</u>
GEB 003	13225-1	Nonaqueous	9/30/86	10/2/86
GEB 004	13225-2	Nonaqueous	9/30/86	10/2/86



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF HAZARDOUS WASTE MANAGEMENT

John J. Trela, Ph.D., Acting Director

CN 028

Trenton, N.J. 08625

609 - 292 - 1250

File: 20-04C

15 DEC 1988

MEMORANDUM

TO: Jeff Sterling, Metro Field Office

FROM: Brian L. Crisafulli, Bureau of Compliance & Technical Services

SUBJECT: Perk Chemical - Elizabeth - #20-04C

Enclosed please find observations and recommendations on the data package submitted by S-R Analytical, Inc. for samples GEB 003 and GEB 004 taken at Perk Chemical in Elizabeth.

Observations

1. Under the initial calibration, the percent relative standard deviation (RSD) exceeded 30% for methylene chloride. This compound was found at 48.3%.
2. Under the matrix spike/matrix spike duplicate analysis, the relative percent difference (RPD) for 1,1-Dichloroethane was slightly off. S-R Analytical had a % RPD of 0 while our calculations had a % RPD of 1.025%. This might indicate that there was a calibration error by the laboratory.
3. The method blank detected ethyl benzene at 210 ug/kg. Sample GEB 003 detected ethyl benzene at 2,400 ug/kg also. It is possible that the sample contaminated the blank or that the laboratory contaminated the blank and the sample.
4. Sample GEB 004 detected 530,000,000 ug/kg or 53% of the sample was 1,1,1-Trichloroethane and 57,000,000 ug/kg or 5.7% of the sample included toluene. Sample GEB 003 detected lower values of 12,000 ug/kg of 1,1,1-Trichloroethane and 4,200 ug/kg of toluene. Obviously, the material in sample GEB 004 has a high volume of volatile organics.

5. The nontargetted library search conducted for sample GEB 003 for volatile organics detected the following compounds: 2 - propanone (acetone), with an estimated concentration of 1,200 ug/kg; an unknown C₄ hydrocarbon at 9,400 ug/kg; another unknown hydrocarbon; 1,3 dimethylbenzene at 3,400 ug/kg and a dimethylbenzene isomer at 2,800 ug/kg.
6. Sample GEB 004 detected an approximate value of 110 ug/l for chromium under the metals (EP extractable) analysis. Sample GEB 004 also had a flashpoint of 86°F. Coupled with the volatiles detected in the analysis, sample GEB004 would be considered a flammable solid.
7. Sample GEB004 also detected 1,050,000 ug/kg or .105% of #2 fuel oil.

Recommendations

1. Caution should be used when reviewing this analysis for ethyl benzene, since contamination of the blank from the sample or by the laboratory has been indicated.
2. Hence, sample GEB 004, depicting a low flashpoint, a high percentage of volatile organics and with the detection of fuel oil in the analysis, is a flammable material and is a hazardous waste.

A-8

MEMONEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Jeff Sterling, Metro Field Office

FROM Brian L. Crisafulli, BCTS DATE 15 DEC 1986

SUBJECT Invoice 9338, Test Report #SR13225, S-R Analytical, Inc. - Perk Chemical

This is in regards to your memo of November 26, 1986 reporting an overcharge of \$49.50 by S-R Analytical. It would seem that there was an error on the typing of the AR-50 forms. Under the description for flashpoint, there was a quantity of 2 for a unit price of \$49.50. The amount showing for the entire column only had \$49.50 as its total. It should of been \$99.00. The total amount shown at the bottom of the AR-50 form (\$2,069.10) was correct originally.

I wanted to bring this to your attention. If you have any questions, please feel free to contact me at your convenience at (609) 633-1492.

BLC:sw

MEMO

NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO Wayne Howitz November 26, 1986
 FROM Jeff Sterling *Jeff Sterling* DATE
 SUBJECT Invoice 9338, Test Report #SR 13225 submitted by
SR Analytical Inc. (Perk Chemical).

The attached invoice shows a total of \$2,069.10. This represents an overcharge of \$49.50. The total should be \$2,019.60.

I have also enclosed one copy of the analytical report for your review.

Please do not hesitate to call me if you have any questions regarding this matter.

js:jap

→ BRIAN - 12/12/86
 CHECK THE CONTRACT
 PRICES - & DETERMINE
 if we are pay Over Charge.
 Return to me by the
 End of 12/2/86
 Wayne

Wayne, 12/2 + 12/11/86
 Redpoint for 2 units
 for \$49.50 - spot is added
 into the total price but
 not in the subamount.
 Brian.

MEMO**NEW JERSEY STATE DEPARTMENT OF ENVIRONMENTAL PROTECTION**

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js:jap

→ BRIAN - 12/12/86
 CHECK THE CONTRACT
 PRICES - & DETERMINE
 if we are being Over Charged.
 Return to me by the
 End of 12/21/86
 Wayne

Wayne, 12/2 + 12/11/86
 Flashpoint for 2 units
 for \$49.50 - spot is added
 into the total price but
 not in the submittal.
 Brian.